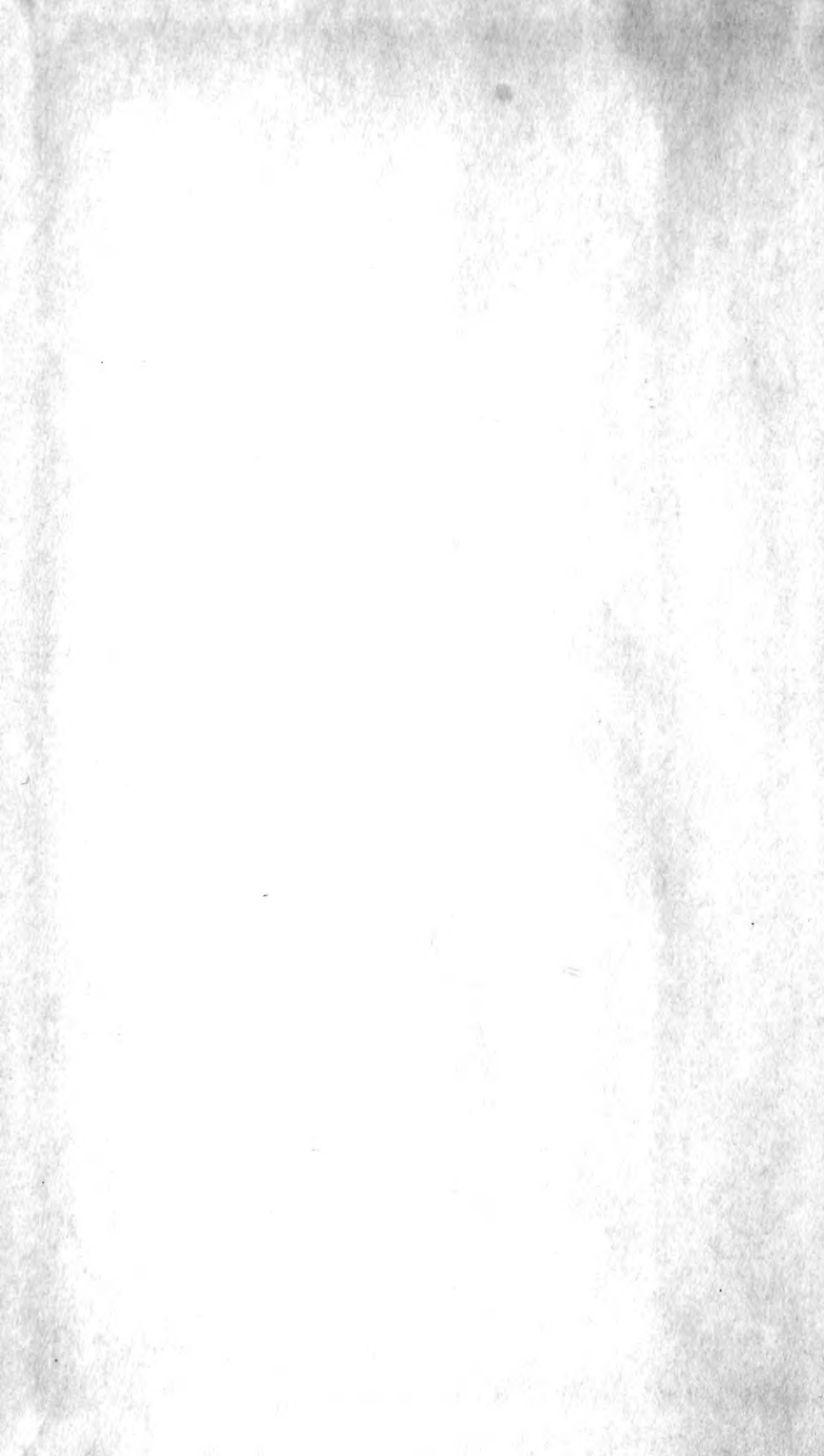






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THE NEW YORK BOTANICAL GARDEN





1279
A CATALOGUE

OF THE

Native and Naturalized Plants

OF THE

CITY OF BUFFALO AND ITS VICINITY,

BY DAVID F. DAY.

BUFFALO:

Baker, Jones & Co., Printers, 222 Washington St.

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The Plants of Buffalo and its Vicinity.

BY DAVID F. DAY.

It is quite certain that before the establishment of the BUFFALO SOCIETY OF NATURAL SCIENCES no one had undertaken to investigate the Flora of Buffalo and determine what plants it comprised.

It is true that at rare intervals some of the early botanists and collectors had visited our neighborhood. As long ago as 1749, KALM, a contemporary and correspondent of LINNÆUS, made an excursion to the Falls of Niagara, and, undoubtedly, collected some of the remarkable plants of that locality. In 1806, PURSH, the author of "Flora Americæ Septentrionalis" (as we are informed in his preface) "traversed the extensive and highly interesting country of the Lesser and Great Lakes." In the following year, MICHAUX, the younger, while engaged in a botanical exploration in western New York, traveled from Batavia to Buffalo, recording some interesting observations respecting our primæval forest; and, some fifteen or twenty years later, DRUMMOND and DOUGLASS, distinguished botanical explorers, made collections of plants at Niagara. Unfortunately, however, only the scantiest and most unsatisfactory record reaches us of the labors and discoveries of these pioneers of botanical science in this vicinity.

Probably the earliest botanist who had a permanent residence in Buffalo, was Dr. JOHN A. KINNICUTT:—in 1828, one of the physicians of the village. In "The Flora of the State of New York," TORREY makes acknowledgement of having received from Dr. KINNICUTT some of our more notable plants: but, aside from this brief mention, we have no account of his botanical labors.

Upon the organization of the BUFFALO SOCIETY OF NATURAL SCIENCES, in December, 1861, a Committee on Botany was appointed, consisting of the Hon. GEORGE W. CLINTON, the Society's first President, Dr. CHARLES C. F. GAY, and the compiler of the present Catalogue. In the spring of 1862, the Committee began an investi-

gation of the Flora of Buffalo and the formation of an Herbarium, for its illustration. At the close of the year 1863, two seasons having been spent in the field, the Committee had detected and identified 936 species, or well-marked varieties, of phænogamous plants. A list of these, and of 40 species of vascular cryptogams, which had also been collected, was prepared by Judge CLINTON and published in the spring of 1864.

The investigation thus begun, although not always prosecuted with the assiduity which at first characterized it, has never since ceased. At the present time the plants which have been collected in our region, and of which specimens are contained in the Herbarium of the Society, amount to not less than 2800 species. It is confidently believed that except in the lower orders of the *Cryptogamæ*, the number of species belonging here, and which still remain to be discovered, is comparatively small. Hence, the Society has deemed the present time a proper one to give to the botanical world a Catalogue of "THE PLANTS OF BUFFALO AND ITS VICINITY."

In preparing such a catalogue for publication, it has been thought well that it should embody the results (so far as they have proved accessible) of the efforts of all persons, whether connected with the Society or not, who, at any time, or in any degree, have contributed to make a knowledge of our Flora more complete. For all such assistance it has been intended that due credit should be given. But it would be unpardonable if the declaration were not here placed upon record, that to the tireless energy and zeal of the Society's first President, we are indebted for much the largest and most valuable part of the labors epitomized in the Catalogue. From the foundation of the Society until his recent removal from our city, Judge CLINTON freely gave to the exploration of our Flora, not only the assiduous attention of a profound and discriminating mind, but also such unremitting, physical labor as only the most devoted student of nature could have bestowed. By his hands, specimens of all the plants, except Algæ, here enumerated, as well as some 20,000 more, the product of other regions, procured by him for the Society, have been labeled and arranged in its botanical collections, henceforth, in grateful recognition of his services, to be known as "THE CLINTON HERBARIUM."

THE CITY OF BUFFALO is situated at the foot of Lake Erie, in latitude $42^{\circ} 52' 46.26''$ N., and longitude $1^{\circ} 52' 57.1''$ W. of Washington:—the Lighthouse, at the mouth of Buffalo River, being taken as the point of observation. Its mean annual temperature, deduced from the daily observations of more than twenty years, is 48.39° , Fahrenheit. Its mean temperature for the summer months averages 68.80° , and for the winter months, 30.22° . Its changes of temperature, although somewhat sudden, are in fact neither as extreme nor as frequent as those of many places not very distant. Usually, in summer, Montreal and Quebec have warmer days, and in winter, St. Louis and Memphis, colder ones. Philadelphia, lying nearly 180 miles more southerly, has a higher annual temperature of only six degrees.

The cause of this equability of climate is easily discovered. Within the limits of Buffalo are eight miles of the shore of Lake Erie and Niagara River. The waters of the lake, warmed by the summer, later in the year impart their heat to the atmosphere, and thus for a while, retard the approach of winter. The same cause, acting in the opposite direction, delays the spring, (often for a considerable time), and always moderates the heat of summer. But these effects extend inland only a few miles.

The height of Lake Erie has been ascertained to be 573 feet above the ocean. The City of Buffalo nowhere occupies an elevation of more than 105 feet above the lake, and probably its average height does not exceed 30 feet. But at the distance of 20 or 30 miles to the east and south, the ground is much higher; and there, as might be expected, we find a much lower mean annual temperature. At Salamanca, in Cattaraugus County, distant 50 miles from Buffalo, the mean annual temperature is only 45° , Fahr.

For the last twenty-four years the average rain-fall at Buffalo has been 36.47 inches. But towards the south and southeast the usually lower temperature is accompanied by an increase in the annual rain-fall. At Salamanca, above mentioned, it is 44 inches. Whilst it may well be supposed that at all times, but especially in summer, the lake imparts to the atmosphere some degree of moisture, nevertheless, the climate at Buffalo, as compared with those of places not very remote, must be regarded as dry. It may be of interest to note that in Pennsylvania, and the middle and southerly

portions of New York and through nearly all New England, the annual rain-fall is from ten to fifteen inches greater.

The natural botanical district, in which the City of Buffalo is situated, is a part of the basin of Lake Erie. For the sake of convenience and distinction, it will here be called the **ERIE DISTRICT**.

Towards the south and southeast, it finds its boundaries in a range of highlands, distant from thirty to fifty miles from Buffalo, beyond which the streams flow into the Allegany, and thence into the Ohio and the Mississippi. These highlands constitute, in fact, a part of the northeasterly limits of the Mississippi Valley. That region, so far as it comes within the scope of the Catalogue, will be called the **ALLEGANY DISTRICT**.

In Chatauqua County, the limits of the Erie District are very narrow. Between Lake Erie and the head of Chatauqua Lake, the interval of land is but seven and a half miles wide. Here the dividing ridge approaches so near Lake Erie as to leave only a strip of land less than four miles in width. Yet the summit of the ridge is 891 feet above Lake Erie. Eastwardly its height increases. Between Chatauqua Lake and Connewango Creek the elevation is reached of 1401 feet, and between Connewango Creek and Ellicottville, that of 1570 feet. Upon the summit, in several places, a conglomerate of the coal period is found, *in place*. In Chatauqua County, almost upon the crest of the dividing land, a series of lakes appears. The largest of these is Chatauqua Lake, 726 feet above Lake Erie. Northerly and northeasterly from Chatauqua Lake are Bear, Cassadaga and Mud Lakes, respectively 755, 732 and 833 feet above Lake Erie, and as truly sources of the Mississippi as the far distant Itasca.

The easterly boundary of the Erie District is another range of highlands, which divides it from the basin of the Genesee River:—here termed the **GENESEE DISTRICT**. Towards the southeast these elevations meet and unite with those which separate the Erie from the Allegany District, and are as high. To the north they decline, but even at Batavia they have an elevation of about 300 feet above Lake Erie.

The northerly boundary of the Erie District is marked, both in New York and Canada, by that extraordinary exposure and elevation of rock, known in its vicinity as the “Mountain Ridge,” and to which Canadian geologists have given the name of the “Niagara

Escarpment." Eastwardly, it is first observed in Monroe County, a few miles west of Rochester. From thence it extends westerly through the whole of Orleans and Niagara Counties, constituting their highest elevations. In Orleans County, Oak Orchard Creek and its tributaries, in their descent to Lake Ontario, flow over it in various places. Niagara River has excavated through it its stupendous chasm. In its westerly course, as well in New York as in Canada, it constantly rises. At Lewiston it is 374 feet above Lake Ontario, and at Ancaster, near Hamilton, it reaches the height of 510 feet. Almost from its very verge the surface of the ground, probably because of the dip of the subjacent rock, slopes southerly. North of the Mountain Ridge the surface descends rapidly, and an interval of comparatively level land, varying in width from one to fifteen miles, and lying at the average height of about 200 feet above Lake Ontario, is soon reached. Its level below Lake Erie is about 141 feet. This territory, whether easterly or westerly of Niagara River, may be properly called the ONTARIO DISTRICT.

The Catalogue presents the name of all the plants which have been detected within a radius of fifty miles of Buffalo, and satisfactorily identified. The selection of such extended limits for a local catalogue was controlled by the important considerations that a smaller territory would not have brought within its cognizance the extreme southeasterly portions of the Erie District, and would have excluded several localities of great botanical interest, to the exploration of which especial attention has been given:—among them the rich and attractive region at Portage and the Falls of the Genesee.

The altitudes of many of the places named in the Catalogue have been indicated upon the map which accompanies it. It is supposed that these will prove of no little interest. The statement that in respect to the growth of plants a higher elevation is equivalent to a higher latitude here meets with some note-worthy confirmations. The proposition has been more definitely embodied in the formula, (susceptible of easy mathematical demonstration), that, between latitudes 35 and 60, an elevation of three hundred feet is equal to one degree of north latitude. The higher portions of the Erie, Genesee and Allegany Districts, lying between the parallels of $42^{\circ} 10'$ and $42^{\circ} 30'$ N. latitude, reach a height varying from 1500 to 2300 feet above the sea. The temperature, then, of these places, should be equiva-

lent to that of places upon the sea-coast, situated from three hundred and fifty to five hundred miles further northward:—as far, in fact, as Vancouver's Island or the mouth of the St. Lawrence. And here, upon these elevations, are found many plants well recognized as of a northern character:—Among them *Viola Selkirkii*, *Cerastium boreale*, *Ledum latifolium*, *Saxifraga azoides*, *Petasites palmata*, *Primula Mistassinica* and *Pinguicula vulgaris*.

In obedience to the same law, the lower level of the Ontario District is accompanied by a higher mean temperature than that of the Erie District. To this result, however, the great depth of Lake Ontario, and its direction, east and west, largely contribute. Within its limits the springs are somewhat earlier and the winters more moderate. Fruits ripen which near Buffalo are precarious. Along the southern shore of the lake, but in places somewhat beyond the limits of the Catalogue, two plants appear, of such southern character as *Nelumbium luteum* and *Linobium Spongia*. *Asimima triloba* flourishes in several places in Orleans and Niagara Counties, and it is not unlikely that *Cercis Canadensis* was formerly native there.

It may be stated, as a general proposition, that whatever of variety there is in the Flora of Buffalo and its vicinity has resulted only in a small degree, if at all, from geological situation. In fact, the subjacent rocks have contributed to the soil but little, either by abrasion or decomposition. The diversified materials, of which it is composed (excepting, of course, vegetable mould and the ancient and modern deposits of the lake and river) are recognized as having been brought from the north during the glacial period. To the south and southeast, however, the shaly rocks of the Hamilton Group have yielded, in some places, an argillaceous quota to the soil.

A few localities within our limits deserve especial notice.

A little north of Salamanca, in Cattaraugus County, occupying the summit of one of the highest hills, at the altitude of 2250 feet above the sea, are the remains of a conglomerate rock, of carboniferous age. The stratum varies in thickness from ten to thirty feet. By the slow processes of time, or, possibly, the operations of a more active agent, the rock has been broken up into rectangular masses, varying greatly in size: these, separating from each other, have left passages between, in which the imagination may easily discover the streets

and avenues of an ancient and ruined city. Hence the name by which the place is known:—"Rock City." Here, in sheltered spots, the snow and ice sometimes remain all the year long. And here *Epigæa repens*, *Ilex monticola*, *Listera cordata*, the two *Clintonias*, and other plants delighting in a cool and moist atmosphere, luxuriate.

The lake shore, on either side, affords plants well recognized as maritime:—as, for example, *Cakile Americana*, *Lathyrus maritimus*, *Euphorbia polygonifolia*, and *Triplasis purpurea*. *Hudsonia tomentosa*, attributed to the shores of the great lakes, has not yet been seen. But with the others grow some plants, not known to inhabit the sea-coast, and not met with inland; such as *Artemisia Canadensis*, *Glycyrrhiza lepidota* and *Corispermum hyssopifolium*. With us, *Ptelea trifoliata*, and *Juniperus communis* are always lake-shore plants; and *Lithospermum hirtum* is rarely met with elsewhere.

The atmosphere at the Falls of Niagara is charged, in an extraordinary degree, with moisture. The spray of the cataract, descending in some places in an incessant shower, produces a fitting habitat for several species of plants, elsewhere, rarely, if ever, seen within our limits. *Hypericum Kalmianum*, *Parnassia Caroliniana*, *Lobelia Kalmii*, *Campanula rotundifolia*, *Utricularia cornuta*, *Gentiana crinita*, *Carex Oederi*, etc., here find congenial environment. At Portage, similar conditions sustain several of the same species, and beside them *Saxifraga aizoides*, *Primula Mistassinica* and *Pinguicula vulgaris*. In the gorge of both rivers, *Pterospora Andromedea* is found.

At Point Abino, on the Canadian shore of Lake Erie, at the distance of eleven miles from Buffalo, the sand of the beach has been drifted by the winds into dunes, sometimes a hundred feet in height, covered with trees of ancient growth. We have not met, in any other place, with *Corydalis flavula*, *Sisymbrium Thaliana*, the rose-colored *Arabis Drummondii*, nor, of late years, the most fragrant of our native plants, *Moneses uniflora*. Here, too, in the crevices of the corniferous limestone, lying but a little above the surface of the lake and kept constantly wet by its waters, *Linum striatum* is found, growing in abundance:—its only locality known in our vicinity. Near it occurs a form of *Hypericum Kalmianum*, with smaller corymbs, but larger flowers, than it produces at the Falls.

In the immediate vicinity of Buffalo only small patches of sphagnum bogs are found. But at the distance of ten or fifteen

miles, east or west, they are more frequently met with. In Chautauqua, Cattaraugus and Wyoming Counties they are abundant and sometimes of large dimensions. But the most extensive of those found east of Niagara River occur near the boundary line between Genesee and Orleans Counties, and have proved of peculiar interest. At Black Creek, in Canada, near where it enters Niagara River, a sphagnous swamp occurs, said to extend westward to Marshville, a distance of twenty-five miles. This, beyond question, is the largest one in our neighborhood. Along the lake shore, east of Point Abino, a small swamp of sphagnum is found which affords the nearest station of *Sarracenia purpurea*. While all these bogs present the same general characteristics, yet in the plants which they nourish there is considerable diversity. *Scheuchzeria palustris* has been found in one at Hanover, Chautauqua County, and not elsewhere. *Microstylis monophyllos* and *Stellaria borealis* seem to occur only in a piece of wooded spagnum at Machias. *Andromeda polifolia* has been collected in an open bog at the same place, and in the one at Black Creek, but not elsewhere. *Lonicera oblongifolia* occurs in a marsh at Alabama, in Genesee County; and the marsh at Bergen, in the same county, alone, has yielded us *Cypripedium candidum* and *Calypto borealis*:—of the latter, a solitary specimen. *Cypripedium arietinum*, diligently sought for in all these localities, has not yet been noticed.

That portion of the city which lies east of Delaware Street and north of Scajauquady's Creek, offers to the botanist a field of no little attraction. It early acquired the name of "Buffalo Plains." Here, throughout an extensive area, the corniferous limestone, occupying a position almost horizontal, approaches very near the surface. In places, the rock remains uncovered. But, notwithstanding the fact that the soil is very shallow, the region was once well-wooded; and it is still the home of some most interesting plants, rarely seen in other portions of our district. Among them may be named *Ranunculus fascicularis*, *Arabis perfoliata*, *Viola palmata*, *Viola tenella*, *Ceanothus Americana*, *Staphylea trifolia*, *Saxifraga Virginienensis*, *Vaccinium stamineum*, *Pentstemon pubescens*, *Ipsomœa pandurata*, *Frasera Carolinensis*, *Gentiana puberula*, *Asclepias tuberosa*, and *Scirpus Clintonii*. Its Sylva, also, has its peculiarities. Here, alone, we have met *Quercus Muhlenbergii*, *Q. prinoides* and

Ulmus racemosa. Nowhere else, with us, have *Quercus alba*, *Q. obtusiloba* and *Q. macrocarpa* appeared so abundantly.

The table, which is appended to the Catalogue, is designed to show, at one view, the number of genera and species in the several classes and orders of plants represented in our Flora. It will be seen that quite frequently one species is the sole representative of a genus or order, elsewhere in the world abundant and important. Especially is this true of the *Phænogamæ*. The entire number of species in that portion of the vegetable kingdom, included in the Catalogue, is 1,217, comprised in 106 orders. Of such species more than half the entire number belong to the following 10 orders:

<i>Compositæ</i> ,	-	-	-	-	-	143 species.
<i>Cyperacæ</i> ,	-	-	-	-	-	105 species.
<i>Graminæ</i> ,	-	-	-	-	-	88 species.
<i>Rosacæ</i> ,	-	-	-	-	-	52 species.
<i>Leguminosæ</i> ,	-	-	-	-	-	45 species.
<i>Menthacæ</i> ,	-	-	-	-	-	39 species.
<i>Ranunculacæ</i> ,	-	-	-	-	-	36 species.
<i>Cruciferæ</i> ,	-	-	-	-	-	36 species.
<i>Orchidacæ</i> ,	-	-	-	-	-	34 species.
<i>Liliacæ</i> ,	-	-	-	-	-	31 species.
In all,	-	-	-	-	-	609 species.

The largest genera, in the same division of plants, are *Carex*, containing 72 species; *Solidago*, 20 species; *Aster*, 19 species; *Polygonum*, 16 species; *Salix*, 14 species; *Potamogeton*, 12 species; *Viola*, 11 species, and *Habenaria*, 10 species. Of trees, the genus *Quercus* contains the greatest number of species:—nine.

But it ought not to be inferred that the large number of species, contained in a particular genus, is any indication that the plants of such genus are especially abundant. *Tilia Americana* and *Tsuga Canadensis* undoubtedly constituted a much larger share of our original forest than the nine species of oak taken altogether.

It would be very far from the truth to assert that the entire territory included within the limits of fifty miles from Buffalo has been fully explored, and all its floral treasures brought to light. Much of Wyoming and Genesee Counties remains to be examined. Except

near Niagara River very little has been done in the Ontario District. In that part of the Erie District which lies west of Niagara River many localities remain to be investigated. But it is very safe to say that all our characteristic flowering plants and all our more abundant cryptogams are named in the Catalogue. The species hereafter to be detected within our limits will probably be found in scanty numbers and inhabiting very narrow bounds.

The naturalized plants of Buffalo are a large and increasing number. In accordance with usage their names appear in the Catalogue in small capitals. Several of them are of recent introduction:—a few as garden escapes, but the larger number through the agency of the southern and western railways. It is doubtful whether all these strangers will long remain; but it may be said that, in case they should disappear, they are likely to be introduced again in the same way. But some of them manifest a wonderful capacity of persistence and increase;—notably, *Artemisia biennis* (with us uniformly an annual), which, twenty years ago, was a rare plant, but is now met with in superabundance.

Early in the history of the Society, the investigation of our Lichens was generously undertaken by Miss MARY L. WILSON, then of our city, now of Haverhill, Mass. The success which attended her efforts in this difficult and neglected field, is demonstrated by the very valuable collection of plants of that order, constituting a part of the Herbarium. Miss WILSON has now enhanced the value of her labors by preparing with her own hand the list of the Lichens of Buffalo which makes a part of the Catalogue.

It is confessed, with much regret, that the investigation of the Algæ of Buffalo has been greatly neglected. The list of them which appears in the Catalogue is from the very competent hands of Prof. DAVID S. KELLCOTT, of the State Normal School in this city. But, unfortunately, Prof. KELLCOTT has not been able to give to their study more than a small portion of his time, and that only during the last few seasons. It may, however, be confidently expected that, at no distant time, a revised list of the Algæ of Buffalo will be issued by the Society, with such extensions and corrections as, upon further research and examination, may appear necessary.

Grateful acknowledgments are made to Mr. CHARLES H. PECK, of Albany, N. Y., the State Botanist, for his kindness in supervising

and correcting our lists of Musci, Hepaticæ and Fungi:—originally prepared by Judge CLINTON, by whom all the species were detected, except as otherwise stated.

For the accompanying map we are indebted to Mr. JULIUS POHLMAN, Custodian of the Society, and to Mr. HENRY CHANDLER, of this city, who has generously assisted in the engraving of it. It is hoped that it will prove of use, not only at the present time, but in the future, as a guide to the localities in which some of the rarer and more interesting members of our Flora were detected. The altitudes, given upon the map, of various places named in the Catalogue, have been obtained in all instances from sources which, it was thought, could be relied upon. In the main, it is to be presumed that they are nearly, if not quite, accurate.

It will be seen that the names of a few species, which appear in the Catalogue, are not accompanied by numbers. In such instances the plants are mentioned either because they are known to have formerly existed in this vicinity, although they have now disappeared, or because there is evidence, more or less satisfactory, for believing that they actually belong to our Flora, and will yet be detected here. In any event, however, as they are not numbered, their inclusion in the Catalogue will not lead to any misapprehension.

Whenever any plant is named and its locality is not given it may be understood that the plant is one of general diffusion through our territory. When localities are given, they are mentioned in the order of their distance from Buffalo:—the nearest first. In all such cases it may be understood that the compiler has regarded them as among our rarities. All phænogamous plants and their stations are named upon the authority of his personal observation, except as otherwise stated. From this, however, it is not to be inferred that he claims to have been the discoverer of the species in the localities named. The fact is often to the contrary.

A word may be of use in explanation of the nomenclature adopted in the Catalogue. As a rule, the names of species are those employed by WATSON, in his "Bibliographical Index to North American Botany," so far as that valuable work has issued from the press. But where such names differ from those given by GRAY, in the fifth edition of his Manual, the latter will be found in parentheses. In a very few instances the compiler has ventured to differ

from both of these pre-eminent authorities, and has used the names applied by other botanists.

The fact is entitled to notice that now, probably for the first time in America, a local catalogue is published in which the plants of all the classes in the vegetable kingdom are included. Usually, heretofore, such catalogues have not extended beyond the Vascular Cryptogams:—very rarely, indeed, have they comprehended the Musci and Hepaticæ.

No one more than the writer can regret that any reason should have compelled Judge CLINTON to decline the task of preparing this Catalogue for publication:—no one can better appreciate how much has been lost because that labor has devolved upon another. In this city, where that devoted naturalist and accomplished scholar passed so many years of his useful and honorable life, nothing needs to be said, to any one, of his peculiar fitness for such a duty. The clearness, learning and rare felicity of style, with which he was accustomed to illumine and adorn his favorite theme, will here be long remembered.

Buffalo, March 1st, 1882.

CATALOGUE.

SERIES I. PHÆNOGAMÆ.

CLASS I. ENOGENÆ.

SUBCLASS I. ANGIOSPERMÆ.

DIVISION I. POLYPETALÆ.

ORDER I. RANUNCULACEÆ.

1. CLEMATIS, L.

1. *C. Virginiana*, L.

2. ANEMONE, L.

2. *A. cylindrica*, Gray.

The Plains, Buffalo.

3. *A. Virginiana*, L.

4. *A. dichotoma*, L. (*A. Pennsylvanica*, L.)

5. *A. nemorosa*, L.

6. var. *quinquefolia*, DC.

- 7. *A. Hepatica*, L. (*Hepatica triloba*, Chaix.)

Niagara Falls; Lewiston, Niagara Co.; Salamanca, Catt. Co.;
Portage, Gen. Co. Common in the places named. Elsewhere
not observed.

- 8. *A. acutiloba*, Lawson. (*Hepatica acutiloba*, DC.)

The common "Hepatica" of Buffalo and its vicinity. Usually
not found in company with *A. Hepatica*.

3. THALICTRUM, L.

9. *T. anemonoides*, Michx.

Rare. Near Queenston, Ont.; Portage, Wyom. Co., *Clinton*;
Jamestown, Chat. Co.

10. *T. dioicum*, L.

11. *T. Cornuti*, L.

4. ADONIS, L.

12. *A. AUTUMNALIS*, L. Spontaneous in gardens.

5. RANUNCULUS, L.

13. *R. aquatilis*, L. var. *trichophyllus*, Chaix.

Niagara River.

14. *R. multifidus*, Pursh.

Rare. W. Seneca, Erie Co.; Lewiston, Niag. Co.

15. *R. alismæfolius*, Geyer.Rare. Salamanca, Catt. Co., *Clinton*.16. *R. Flammula*, L., var. *reptans*. Meyer.

Very rare. West shore of Strawberry Is., Niagara River.

17. *R. abortivus*, L.18. *R. sceleratus*, L.

Rather rare. Black Rock; Scajauquady's Creek.

19. *R. recurvatus*, Poir.20. *R. Pennsylvanicus*, L.Not very common. Shore of Niagara River at Black Rock;
Scajauquady's Creek.21. *R. fascicularis*, Muhl.Rather rare. Near the Park and Forest Lawn Cemetery; the
Plains, Buffalo.22. *R. repens*, L.With us usually smooth; a pubescent form at Forestville, Chat.
Co.; perhaps var. *Marylandicus*, Torr. and G.23. *R. ACRIS*, L.24. *R. BULBOSUS*, L. Rare. Introduced.6. *NIGELLA*, L.25. *N. DAMASCENA*, L. Spontaneous in gardens. And escaped, *Clinton*.7. *CALTHA*, L.26. *C. palustris*, L.8. *TROLLIUS*, L.27. *T. laxus*, Salisb.Very rare. Near Batavia, Gen. Co., *J. S. Lewis*; Silver Lake,
Wyom. Co., *Clinton*; near Portage, in Gen. Co.9. *COPTIS*, SALISB.28. *C. trifolia*, Salisb.10. *HELLEBORUS*, L.29. *H. VIRIDIS*, L.Very rare. Along a railroad track near Salamanca, Catt. Co.
Probably the outcast of a garden.11. *AQUILEGIA*, Tourn.30. *A. Canadensis*, L.31. *A. VULGARIS*, L.Rare. Water Valley, Erie Co.—A white variety, which seems
here, as elsewhere in the State, more disposed to persist than
the blue or purple sort.

12. DELPHINIUM, Tourn.

32. D. CONSOLIDA, L.

Spontaneous in gardens and occasionally escaping.

13. HYDRASTIS, L.

33. H. Canadensis, L.

Very rare. Near Smoke's Creek, West Seneca, Erie Co.; Cayuga Is., Niagara River, Clinton; Medina, Orleans Co., Dr. Hugo Schmidt; Niagara Co., Knieskern.

14. ACTÆA, L.

34. A. spicata, L., var. rubra, Ait.

35. A. alba, Bigelow.

15. CIMICIFUGA, L.

→ 36. C. racemosa, Nutt.

Rather rare. Squaw Is., Niagara River; W. Seneca, Erie Co.; Silver Lake, Wyom. Co. Chaut Co. thro' Allegheny

ORDER 2. MAGNOLIACEÆ.

16. MAGNOLIA, L.

→ 37. M. acuminata, L.

Rare. Forest Lawn Cemetery, Buffalo; Abbott's Corners, Erie Co.; Niagara Co., Knieskern; Hanover, Chat. Co. & C.

17. LIRIODENDRON, L.

→ 38. L. tulipifera, L.

Now rather rare. Formerly abundant, and still at Niagara

ORDER 3. ANONACEÆ.

18. ASIMINA, Adans.

→ 39. A. triloba, Dunal.

Very rare. Sturgeon Pt., Erie Co., C. H. Williams; Lockport and Middleport, Niag. Co., James Hall; mouth of Chatauqua Creek, Knieskern; Medina, Orleans Co., Dr. Hugo Schmidt.

ORDER 4. MENISPERMACEÆ.

19. MENISPERMUM, L.

40. M. Canadense, L.

ORDER 5. BERBERIDACEÆ.

20. BERBERIS, L.

41. B. VULGARIS, L.

Rare. Goat Island, Niagara Falls.

21. CAULOPHYLLUM, Michx.

- 42.
- C. thalictroides*
- , Michx.

22. JEFFERSONIA, Barton.

- 43.
- J. diphylla*
- , Pers.

Very rare. Near Niagara Falls, *Clinton*.

23. PODOPHYLLUM, L.

- 44.
- P. peltatum*
- , L.

ORDER 6. NYMPHÆACEÆ

24. BRASENIA, Schreber.

- 45.
- B. peltata*
- , Pursh.

Rare. Black Creek, Ont., *Clinton*; Machias, Catt. Co; Cassadaga L., Chat. Co.

NELUMBium, Juss.

- N. luteum*
- , Willd.

It seems entirely certain, from the report of *J. F. Corvell*, that this rare and remarkable water-lily grows near Burnham's Is., in Grand River, a few miles from Dunnville, Ont.

25. NYMPHÆA, L.

- N. odorata*
- , Ait.

A pink flowering water-lily, probably this species, is reported by Miss *Ella M. Evry* to have been gathered at Cassadaga L., Chat. Co. "Inland Lakes, Chat. Co.," *E. S. Burgess*.

- 46.
- N. tuberosa*
- , Paine.

26. NUPHAR, Smith.

- 47.
- N. advena*
- , Ait.

ORDER 7. SARRACENIACEÆ.

27. SARRACENIA, Tourn.

- 48.
- S. purpurea*
- , L.

Rather rare. Pt. Abino, Ont.; Villanova, Chat. Co.; Bergen, Gen. Co.; Machias, Catt. Co.; Java, Wyom. Co.; near Port Colborne, Ont., and elsewhere.

ORDER 8. PAPAVERACEÆ.

28. PAPAVER, L.

- 49.
- P. somniferum*
- , L.

Spontaneous in gardens, and sometimes escaping.

- 50.
- P. rhæas*
- , L.

Spontaneous in gardens.

29. ARGEMONE, L.

51. A. MEXICANA, L.

Rare. Roadsides; near the Cattle-yards at East Buffalo; spontaneous in gardens.

30. CHELIDONIUM, L.

52. C. MAJUS, L.

Common at Pt. Abino, Ont., elsewhere scarce. ^E

31. SANGUINARIA, Dill.

53. S. canadensis, L.

Rarely with four petals!

ORDER 9. FUMARIACEÆ.

32. ADLUMIA, Raf.

54. A. clrrhosa, Raf.

Very rare. "Counterfeiter's Ledge," near Akron, Erie Co;
One specimen was found growing on the Plains, Buffalo, and
another at Ft. Erie, Ont.

33. DICLYTRA, Borkh.

55. D. cucullaria, DC. (*Dicentra cucullaria*, DC.)

Rather rare. W. Seneca, Erie Co.; Goat Is., Niagara Falls;
Hanover, Chat. Co. ^{x Harmony}

56. D. Canadensis, DC. (*Dicentra canadensis*, DC.)

Rather rare. Growing with *D. cucullaria*, but more uncommon.

34. CORYDALIS, Vent.

57. C. glauca, Pursh.

Very rare. Tonawanda, Niag. Co., *Clinton*; near Akron, Erie
Co.

58. C. flavula, Raf.

Very rare. Pt. Abino, Ont.

35. FUMARIA, L.

59. F. OFFICINALIS, L.

A very rare garden weed.

ORDER 10. CRUCIFERÆ.

36. NASTURTIUM, L.

60. N. OFFICINALE, R. Br.

Rather rare. Scajauquady's Cr., Buffalo, W. J. Palmer; Nia-
gara Falls, near Table Rock, *Clinton*; Caledonia, Liv. Co.

61. N. palustre, DC.

62. *N. lacustre*, Gray.

Rare. Niagara River, *Clinton*; Scajauquady's Creek, Buffalo;—
the station now included in the Park, and obliterated.

63. *N. AMORACIA*, Fries.

37. DENTARIA, L.

64. *D. diphylla*, Michx.

Rather rare. W. Seneca, Erie Co.; Hanover, Chat. Co.; Goat
Is., Niagara Falls, and elsewhere.

65. *D. maxima*, Nutt.

Rare. Angola, Erie Co., *Clinton*.

66. *D. laciniata*, Muhl.

38. CARDAMINE, L.

67. *C. rhomboidea*, DC.

Rather rare. Scajauquady's Creek, Buffalo; Pine Hill, Cheek-
towa, Erie Co.; W. Seneca, Erie Co. (the station destroyed.)

68. *C. rotundifolia*, Michx. ? (*C. rhomboidea*, DC. var. *purpurea*, Torr.)

Our plant does not agree with the description of *C. rotundifolia*
in Gray's Manual, nor with specimens from Penn. Nor is the
plant likely to be *C. purpurea*, Cham & Schlecht., which seems
to be a species growing far northward. In giving it Michx's
name, we follow Watson, but with much doubt.

69. *C. pratensis*, L.

Rare. S. E. portion of Buffalo, near W. Seneca.

70. *C. hirsuta*, L.71. var. *sylvatica*.

39. HESPERIS, L.

72. *H. MATRONALIS*, L.

Spontaneous in gardens, and naturalized in some places.

40. ARABIS, L.

73. *A. lyrata*, L.

Rather rare. Niagara Falls; Ft. Erie, Ont.; Pt. Abino, Ont.

74. *A. dentata*, Torr. and Gray.

Very rare. Eighteen-mile Cr., Evans, Erie Co., *Clinton*.

75. *A. hirsuta*, Scop.

Rare. Near whirlpool, on either side of Niagara R.; near Go-
wanda, Erie Co.

76. *A. lævigata*, Poir.

Rather rare. Forest Lawn Cemetery, Buffalo; Pt. Abino, Ont.

77. *A. Canadensis*, L.78. *A. perfoliata*, Lam.

Rare. Near Forest Lawn Cemetery, Buffalo.

79. *A. Drummondii*, Gray.

Rare. Lewiston, Niag. Co.; Pt. Abino, Ont. The Lewiston plants, white-flowering; the Pt. Abino ones, pink.

41. *BARBAREA*, L.80. *B. vulgaris*, R. Br.42. *ERYSIMUM*, L.81. *E. chieranthoides*, L.

Rather rare. West Seneca, Erie Co.; Mud Lake, Villanova, Chat. Co., and elsewhere.

43. *SISYMBRIUM*, L.82. *S. OFFICINALE*, Scop.83. *S. THALIANA*, Gay.

Pt. Abino, Ont. There abundant. Elsewhere not seen.

S. canescens, Nutt.

Very rare. It seems quite certain that a cruciferous plant, recently detected by members of the "Buffalo Field Club," at the Falls of Tonawanda River, in Corfu, Gen. Co., will prove to be of this species.

44. *BRASSICA*, L.84. *B. SINAPISTRUM*, Bossier.85. *B. NIGRA*, Gray.86. *B. CAMPESTRIS*, L.

Rather rare. To be regarded as accidental.

87. *B. RAPA*, L.

Often spontaneous where "bird seed" has been scattered.

45. *DRABA*, L.88. *D. arabisans*, Michx.

Very rare. "Counterfeiter's Ledge," near Akron, Erie Co.

D. VERNA, L.

Introduced at Buffalo and Goat Is., Niagara Falls. Hardly yet established.

46. *ALYSSUM*, Tourn.89. *A. CALYCINUM*, L.

Rare. Near Brock's Monument, Queenston, Ont.; introduced near Forest Lawn Cemetery, Buffalo.

47. *CAMELINA*, Crantz.90. *C. SATIVA*, Crantz.

Rare. Track of the L. S. & M. S. R. R., Buffalo. Not seen of late.

48. *CAPSELLA*, Vent.91. *C. BURSA-PASTORIS*, Moensch.

49. *THLASPI*, Tourn.92. *T. ARVENSIS*, L.

Rare. Track of the Erie Railway, at Dayton, Catt. Co.

50. *LEPIDIUM*, L.93. *L. Virginicum*, L.94. *L. intermedium*, Gray.

Rare. Track of the Niagara Falls Railroad, near the shore of
Niagara R., Buffalo, *Clinton*. Not seen elsewhere.

51. *CAKILE*, Tourn.95. *C. Americana*, Nutt.

Shore of Lake Erie. Not abundant.

ORDER 11. *CAPSARIDACEÆ*.52. *POLANISIA*, Raf.96. *P. graveolens*, Raf.

A lake shore plant.

53. *CLEOME*, L.97. *C. INTEGRIFOLIA*, Torr. & Gray.

Spontaneous in gardens, and escaping.

ORDER 12. *RESEDACEÆ*.54. *RESEDA*, L.98. *R. ALBA*, L.

Spontaneous in gardens, and escaping.

ORDER 13. *VIOLACEÆ*.55. *IONIDIUM*, Vent.99. *I. concolor*, Benth & Hook. (*Solea concolor*, Ging.)

Rare. Along the descent to Foster's Flat, near Queenston, Ont.

56. *VIOLA*, L.100. *V. rotundifolia*, Michx.

Rather rare. In deep woods in south part of Erie Co.; Han-
over, Chat. Co.

101. *V. blanda*, Willd.102. *V. ODORATA*, L.

Spontaneous in gardens and occasionally escaping.

403. *V. Selkirkii*, Pursh.

Rare. Collins, Erie Co.; Hanover, Chat. Co., ~~Hanover, Chat. Co.~~

104. *V. Cucullata*, Ait.

The variety, *longipes*, Peck, has been noticed in woods near the Sulphur Springs, W. Seneca, Erie Co.

105. *V. palmata*, L. (*V. Cucullata*, Ait, var. *palmata*, Gray.)

Rare. In woods, Plains, Buffalo.

106. *V. canina*, L., var. *sylvestris*, Regel.107. *V. rostrata*, Muhl.108. *V. striata*, Ait.

Rare. Smoke's Cr., W. Seneca, Erie Co.; near Irving, Chat. Co.

109. *V. Canadensis*, L.

A fragrant violet.

110. *V. pubescens*, Ait.111. var. *eriocarpa*, Nutt.112. *V. tenella*, Muhl. (*V. tricolor*, L. var. *arvensis*, Ging.)

Rare. Near the Park, east and west of Main street, Buffalo. We follow Hooker in regarding this plant as distinct from *V. tricolor*.

ORDER 14. CISTACEÆ.

57. *HELIANTHEMUM*, Tourn.113. *H. Canadense*, Michx.

Rather rare. The Plains, Buffalo.

58. *LECHEA*, L.114. *L. major*, Michx.

Rare. The Plains, Buffalo; Grand Is., Niagara River.

115. *L. minor*, Michx.

Rare. The Plains, Buffalo.

ORDER 15. DROSERACEÆ.

59. *DROSER*A, L.116. *D. rotundifolia*, L.

Rather rare. Pine Hill, Cheektowaga, Erie Co.; Pt. Abino, Ont.; Hanover, Chat. Co.; Machias, Catt. Co.

ORDER 16. HYPERICACEÆ.

60. *HYPERICUM*, L.117. *H. pyramidatum*, Ait.

Very rare. Grand Is., Erie Co.

118. *H. Kalmianum*, L.

Very rare. Goat Is., Niagara Falls; Pt. Abino, Ont. The plant at Pt. Abino produces fewer but larger flowers than the one at the Falls.

119. *H. PERFORATUM*, L.120. *H. corymbosum*, Muhl.121. *H. mutilum*, L.61. *ELODES*, Adans.122. *E. Virginica*, Nutt.

ORDER 17. CARYOPHYLLACEÆ.

62. *DIANTHUS*, L.123. *D. ARMERIA*.

Rare. Niagara Falls, Ont., *Clinton*.

63. *SAPONARIA*, L.124. *S. OFFICINALIS*, L.64. *VACCARIA*, Medik.125. *V. VULGARIS*, Host.

Rare. A few plants only have been seen, Buffalo.

65. *SILENE*, L.126. *S. stellata*, Ait.

Rare. Portage, Wyom. Co., *Clinton*; Bemus Pt., Chat. Co.

127. *S. INFLATA*, Smith.

Rare. Near Sulphur Spring, W. Seneca, Erie Co., *Clinton*; Pt. Abino, Ont. Sometimes diœcious.

128. *S. ARMERIA*, L.

Spontaneous in gardens and sometimes escaping.

129. *S. antirrhina*, L.130. *S. GALLICA*, L.

A rare garden weed, Buffalo, equivalent, according to Watson, to *S. quinquevulnera*, L.

131. *S. NOTURNA*, L.

Very rare. A single plant noticed in a roadside at Ft. Erie, Ont., in 1880.

132. *S. NOCTIFLORA*, L.66. *LYCHNIS*, L.133. *L. GITHAGO*, Lam.134. *L. CORONARIA*, L.

Spontaneous in gardens. Buffalo.

67. ARENARIA, L.

135. *A. SERPYLLIFOLIA*, L.136. *A. lateriflora*, L.

68. STELLARIA, L.

137. *S. MEDIA*, Smith.138. *S. longifolia*, Muhl.139. *S. borealis*, Bigelow.

Rare. Only seen at Machias, Catt. Co.

69. CERASTIUM, L.

140. *C. VULGATUM*, L.141. *C. VISCOSUM*, L.142. *C. nutans*, Raf.

Rather rare. West Seneca and elsewhere. A form with apetalous flowers found in the northeastern portion of Buffalo.

143. *C. arvense*, L.

Rare. Near the whirlpool, on both sides of Niagara River; near Foster's Flat, Ont.

70. SPERGULA, L.

144. *S. ARVENSIS*, L.Rare. A weed in gardens, Buffalo; Hanover, Chat. Co: ~~Pa~~

71. MOLLUGO, L.

145. *M. verticillata*, L.

Rare. Ft. Erie, Ont.

ORDER 18. PORTULACACEÆ.

72. PORTULACA, Tourn.

146. *P. OLERACEA*, L.147. *P. GRANDIFLORA*, Hook.

Spontaneous in gardens and sometimes escaping, Buffalo.

73. CLAYTONIA, L.

148. *C. Virginica*, L.149. *C. Caroliniana*, L.

ORDER 19. MALVACEÆ.

74. ALTHEA, L.

150. *A. ROSEA*, L.

Occasionally escaped from gardens, Buffalo, and elsewhere.

75. MALVA, L.

151. *M. ROTUNDIFOLIA*, L.

152. *M. SYLVESTRIS*, L.*M. CRISPA*, L.

Formerly not an uncommon weed in gardens, in Buffalo, but of late not often seen.

153. *M. ALCEA*, L.

Rare. Established along Main street, between Buffalo and Williamsville.

154. *M. MOSCHATA*, L.76. *SIDA*, L.155. *S. SPINOSA*, L.

Rare. Near the track of L. S. & M. S. R. R., at the Elk street crossing, Buffalo, *Clinton*.

77. *ABUTILON*, Tourn.156. *A. AVICENNÆ*, Gærtn.78. *HIBISCUS*, L.157. *H. Moscheutos*, L.

Rare. Squaw Is., Niagara River, near Buffalo. Low grounds in W. Seneca, near the lake shore, *Clinton*.

158. *H. TRIONUM*, L.ORDER 20. *TILIACEÆ*.79. *TILIA*, L.159. *T. Americana*, L.

The basswood seems to have formed a very considerable portion of the original forest, growing on the site of the City of Buffalo, before its settlement. (Michaux's *North American Sylva*, Vol. iii., p. 132.)

ORDER 21. *LINACEÆ*.80. *LINUM*, L.160. *L. Virginianum*, L.

Rather rare. The Plains, Buffalo; near Sulphur Spring, W. Seneca, Erie Co.

161. *L. striatum*, Walt.

Very rare. Plants, probably of this species, were found growing in the crevices of the rock, on the shore of the lake, at Pt. Abino, Ont., 1881.

162. *L. USITATISSIMUM*, L.

Occasionally escaping from cultivation.

ORDER 22. GERANIACEÆ.

81. GERANIUM, L.

163. *G. maculatum*, L.164. *G. Carolinianum*, L.

Rather rare. The Plains, Buffalo.

165. *G. DISSECTUM*, L.

Rare. The Plains, Buffalo. Apparently native; not lately met with.

166. *G. COLUMBINUM*, L.

A rare garden weed, Buffalo.

167. *G. PUSILLUM*, L.

A rare garden weed, Buffalo.

168. *G. Robertianum*, L.

Rather rare. Ft. Abino, Ont.; Goat Is., and elsewhere.

82. FLÆRKIA, Willd.

169. *F. proserpinacoides*, Willd. *Her.*

83. IMPATIENS, L.

170. *I. pallida*, Nutt.171. *I. fulva*, Nutt.

84. OXALIS, L.

✓ 172. *O. Acetosella*, L.Rather rare. Southern part of Erie Co.; Hanover, Chat. Co.;
Java, Wyom. Co. *Trin.*173. *O. stricta*, L.174. *O. CORNICULATA*, L.

A rather common green-house weed.

ORDER 23. RUTACEÆ.

85. XANTHOXYLUM, Colden.

✓ 175. *X. Americanum*, Mill.Rather rare. Ft. Erie, Ont.; Grand Is., Niagara R., *Clinton*.

86. PTELEA, L.

176. *P. trifoliata*, L.Rare. Near Ft. Erie, Ont.; on the shore of L. Erie, in W.
Seneca, Erie Co.; and in Evans, Erie Co.

ORDER 24. SIMARUBACEÆ.

87. AILANTHUS, Desf.

177. *A. GLANDULOSUS*, Desf.

Self-planted in Forest Lawn Cemetery and elsewhere in Buffalo.

ORDER 25. ANACARDIACEÆ.

88. RHUS, L.

178. *R. typhina*, L.179. *R. glabra*, L.

Rare. The Plains, Buffalo.

180. *R. venenata*, DC.

Rather rare. W. Seneca, Erie Co.; near Akron, Erie Co.; near Port Colborne, Ont.; Caledonia, Liv. Co.

181. *R. Toxicodendron*, L.

Rather rare. The Plains, Buffalo.

var. *radicans*, Torr.182. *R. aromatica*, Ait.

Rare. Near the whirlpool, on both sides of Niagara R.; near Youngstown, Niagara Co.

ORDER 26. VITACEÆ.

89. VITIS, L.

183. *V. Labrusca*, L.

Rather Rare. Niagara Falls.

184. *V. æstivalis*, Michx.185. *V. cordifolia*, Lam.

90. AMPELOPSIS, L.

186. *A. quinquefolia*, Michx.

ORDER 27. RHAMNACEÆ.

RHAMNUS, L.

187. *R. alnifolia*, L'Her.

Rare. Scajauquady's Cr., within the Park, Buffalo; the station now obliterated; Hamburg, Erie Co.; Alden, Erie Co.; Bergen, Gen. Co.

92. CEANOTHUS, L.

188. *C. Americanus*, L.

Rather rare. The Plains, Buffalo.

ORDER 28. CELASTRACEÆ.

93. CELASTRUS, L.

189. *C. scandens*, L.

94. EUONYMUS, Tourn.

190. *E. atropurpureus*, Jacq.

Forest Lawn Cemetery, and the Plains, Buffalo; Goat Is., Niagara Falls.

191. *E. Americanus*, L.192. var. *oboratus*, Torr. & Gray.

W. Seneca, Erie Co.; Hanover, Chat. Co.

ORDER 29. SAPINDACEÆ.

95. STAPHYLEA, L.

193. *S. trifolia*, L.

Rare. The Plains, Buffalo; West Seneca, Erie Co.

96. ACER, L.

194. *A. Pennsylvanicum*, L.

Southern part of Erie Co., and throughout the Alleghany Dist.

195. *A. spicatum*, Lam.196. *A. saccharinum*, Wang.197. var. *nigrum*, Torr. & Gray.198. *A. dasycarpum*, Ehrhart.199. *A. rubrum*, L.

ORDER 30. POLYGALACEÆ.

97. POLYGALA, Tourn.

200. *P. verticillata*, L.

Rather rare. The Plains, Buffalo.

201. *P. Senega*, L.

Rather rare. The Plains, Buffalo. The broader leaved form (var. *latifolia*, Torr. and Gray), near the whirlpool, Ont.

202. *P. paucifolia*, Willd.

Rare. : Eighteen-mile Creek, Erie Co.; Portage, Wyom. Co.

ORDER 31. LEGUMINOSÆ.

98. LUPINUS, L.

203. *L. perennis*, L.

Rather rare. Northeastern portion of Buffalo, but the station now exhausted. Near Akron, Erie Co.; along the track of the N. Y. C. & H. R. R. R., east of Batavia, Gen. Co.; near Queenston, Ont.; Silver Lake, Wyom. Co., Clinton; Salamanca, Catt. Co., Clinton.

99. TRIFOLIUM, L.

204. *T. ARVENSE*, L.

Rare. Near Lewiston, Niag. Co.

205. *T. PRATENSE*, L.206. *T. REPENS*, L.207. *T. HYBRIDUM*, L.Rare. Delaware street, near the Park, Buffalo; near Warsaw, Wyom. Co., *Clinton*.208. *T. PROCUMBENS*, L.

Rare. Clifton, Ont.

100. MELILOTUS, Tourn.

209. *M. OFFICINALIS*, Willd.

Rather rare. Near Ft. Porter, Buffalo; Grand Is., Niagara R.

210. *M. ALBA*, Lam.

101. MEDICAGO, L.

211. *M. SATIVA*, L.

Occasionally spontaneous.

212. *M. LUPULINA*, L.

102. ROBINIA, L.

213. *R. Pseudacacia*, L.

Naturalized. Tonawanda Is., Niagara R., and elsewhere.

214. *R. viscosa*, Vent.

Naturalized. Old cemetery between North and Best streets, Buffalo, and elsewhere.

103. ASTRAGALUS, L.

215. *A. Canadensis*, L.

Not common. Squaw Is., Niagara R.; Strawberry Is., Niagara R., and elsewhere.

216. *A. Cooperi*, Gray.

Rather rare. Strawberry Is., Niagara R., Erie Co.; Niagara Falls.

104. GLYCYRRHIZA, Tourn.

217. *G. lepidota*, Nutt.

Very rare. Established on a sand-dune above Ft. Erie, Ont. Probably introduced from the west by the Indians.

105. DESMODIUM, DC.

218. *D. nudiflorum*, DC.219. *D. acuminatum*, DC.

- 220.
- D. rotundifolium*
- , DC.

The Plains, Buffalo.

- 221.
- D. canescens*
- , DC.

The Plains, Buffalo.

- 222.
- D. cuspidatum*
- , Hook.

- 223.
- D. Dillenii*
- , Darl.

Whirlpool woods, Niagara R., American side.

- 224.
- D. paniculatum*
- , DC.

- 225.
- D. Canadense*
- , DC.

- 226.
- D. rigidum*
- , DC.

- 227.
- D. Marilandicum*
- , Boott.

The Plains, Buffalo.

106. *LESPEDEZA*, Michx.

- 228.
- L. violacea*
- , Pers.

229. var.
- sessiliflora*
- .

The Plains, Buffalo.

- 230.
- L. hirta*
- , Ell.

The Plains, Buffalo.

- 231.
- L. capitata*
- , Michx.

The Plains, Buffalo.

107. *ONOBRYCHIS*, Tourn.

- 232.
- O. SATIVA*
- , Lam.

Rare. Pt. Abino, Ont.

108. *VICIA*, Tourn.

- 233.
- V. SATIVA*
- , L.

Rather rare. Black Rock Dam, Buffalo.

- 234.
- V. CRACCA*
- , L.

Rather rare. A garden weed, Buffalo; Hanover, Chat. Co.

- 235.
- V. Caroliniana*
- , Walt.

- 236.
- V. Americana*
- , Muhl.

109. *LATHYRUS*, L.

- 237.
- L. maritimus*
- , Bigelow.

- 238.
- L. ochroleucus*
- , Hook.

- 239.
- L. paluster*
- , L.

240. var.
- myrtifolius*
- , Gray.

- 241.
- L. PRATENSIS*
- , L.

A rare garden weed, Buffalo.

110. *APIOS*, Boerhaave.

- 242.
- A. tuberosa*
- , Moench.

III. AMPHICARPEA, Ell.

- 243.
- A. monoica*
- , Nutt.

II2. BAPTISIA, Vent.

- 244.
- B. tinctoria*
- , R. Br.

Rare. Salamanca, *Clinton*.

CERCIS, L.

- C. Canadensis*, L. Torrey, in his Flora of the State, mentions having received specimens from Dr. Kennicott, of Buffalo, collected, as he thought, near Lewiston; but he says they might not have been native. Not seen by us.

II3. CASSIA, L.

- 245.
- C. Marilandica*
- , L.

Very rare. Evans, Erie Co.

- 246.
- C. Chamæcrista*
- , L.

Very rare. A single specimen collected from the track of the L. S. & M. S. R. R., near Angola, Erie Co., by *Chas. Linden*. But spontaneous in gardens, Buffalo.

II4. GLEDITSCHIA, L.

- 247.
- G. triacanthos*
- , L.

Occasionally spontaneous.

ORDER 22. ROSACEÆ.

II5. PRUNUS, Tourn.

- 248.
- P. Americana*
- , Marshall.

- 249.
- P. Pennsylvanica*
- , L.

- 250.
- P. CERASUS*
- , L.

Often spontaneous along fences and roadsides.

- 251.
- P. Virginiana*
- , L.

- 252.
- P. serotina*
- , Ehrhart.

II6. AMYGDALUS, Tourn.

- 253.
- A. PERSICA*
- , L.

Often spontaneous and occasionally fruiting without cultivation or protection.

II7. SPIRÆA, L.

- 254.
- S. salicifolia*
- , L.

II8. NEILLIA, Don.

- 255.
- N. opulifolia*
- , Bent. & Hook.

Rather rare. Strawberry Is., Grand Is., Niagara R.; Pt. Abino, Ont.

GILLENIA, Mœench.

G. trifoliata, Mœench.

Rare. Jamestown, Chat. Co., *Clinton*. Likely to be found within our limits.

119. POTERIUM, L.

256. **P. Canadense**, Benth. & Hook.

Rare. Clear Creek, Catt. Co.

120. AGRIMONIA, Tourn.

257. **A. Eupatoria**, L.

121. GEUM, L.

258. **G. album**, Gmelin.259. **G. Virginianum**, L.260. **G. macrophyllum**, Willd.

Rare. Hamburgh, Erie-Co.

261. **G. strictum**, Ait.262. **G. rivale**, L.

122. WALDSTEINIA, Willd.

263. **W. fragarioides**, Traut.

123. POTENTILLA, L.

264. **P. Norvegica**, L.265. **P. supina**, L. (*P. paradoxa*, Nutt.)

Rare. "On the sand-bar separating Four-mile Run Pond from the Lake," Ont.; *Clinton*.

266. **P. Canadensis**, L.267. **P. argentea**, L.

Abundant on the Plains, Buffalo, elsewhere not frequent.

268. **P. RECTA**, L. An occasional weed, Buffalo.269. **P. arguta**, Pursh.

Rare. Two plants found on a high, gravelly knoll, near Cherry Cr., Catt. Co.

270. **P. Anserina**, L.271. **P. fruticosa**, L.

Rather rare. Pt. Abino, Ont.; near Pt. Colborne, Ont.; Bergen, Gen. Co.; Caledonia, Liv. Co.

272. **P. palustris**, Scop.

Rather rare. On the shore of Niagara R., Buffalo, between Black Rock and Tonawanda, *J. F. Corwell*; Cayuga Is., Niagara R., *Clinton*; Pt. Abino, Ont.; near Akron, Erie Co.; Bergen, Gen. Co.; Port Colborne, Ont.

124. FRAGARIA, Tourn.

273. *F. Virginiana*, Duchesne.274. *F. vesca*, L.

125. RUBUS, Tourn.

275. *R. Dalibarda*, L.276. *R. odoratus*, L.277. *R. triflorus*, Richardson.278. *R. strigosus*, Michx.279. *R. occidentalis*, L.280. *R. villosus*, Ait.281. *R. Canadensis*, L.

Rather rare. The Plains, Buffalo.

282. *R. hispidus*, L.

126. ROSA, Tour.

283. *R. setigera*, Michx.

Rare. Woods east of Delaware street, beyond the Park, Buffalo.

284. *R. Carolina*, D.285. *R. parviflora*, Ehrhart. (*Rosa lucida*, Ehrh.)286. *R. blanda*, Ait.287. *R. RUBIGINOSA*, L.288. *R. MICRANTHA*, Smith.Rare. Oak Orchard Creek, near Medina, Orl. Co., *Clinton*.289. *R. SPINOSISSIMA*, L.

Rare. Along a roadside on the Plains, Buffalo. Doubtless an escape.

127. CRATÆGUS, L.

290. *C. OXYCANTHA*, L.

Occasionally spontaneous.

291. *C. coccinea*, L.292. *C. tomentosa*, L.293. *C. Crus-galli*, L.

128. PYRUS, L.

294. *P. MALUS*, L.

Rather rare. Large trees, perhaps planted, are growing in woods on Grand Is., Niagara R., near Sheenwater; elsewhere sometimes spontaneous.

295. *P. COMMUNIS*, L.Grand Is. Less common than *P. Malus*.

296. *P. coronaria*, L.

Not uncommon. Cheektowaga, the name of one of the towns of Erie Co., signifies in the Seneca language, according to *O. H. Marshall*, Esq., of Buffalo, "the place of crab-apples." Plentiful on the Plains, Buffalo, and at Portage, Wyom. and Liv. Cos.

297. *P. arbutifolia*, var. *melanocarpa*, Gray.298. *P. Americana*, DC.

Rare. Machias, Catt. Co., "Rock City," Little Valley, Catt. Co.; Panama, Chat. Co., *Clinton*.

129. AMELANCHIER, Medik.

299. *A. Canadensis*, Torr. & Gray.

ORDER 33. SAXIFRAGACEÆ.

130. RIBES, L.

300. *R. Cynosbati*, L.301. *R. oxyacanthoides*, L. (*R. hirtellum*, Michx.)302. *R. prostratum*, L'Her.

Rare. Hanover, Chat. Co.; Dayton, Catt. Co. $\frac{H}{2}$

303. *R. floridum*, L'Her.304. *R. rubrum*, L., var. *subglandulosum*, Maxim.

Rare. In Buffalo Park, where "The Lake" now is; the station obliterated. Hamburg, Erie Co.; Jamestown, Chat. Co., *Clinton*; Westfield, Chat. Co., *Clinton*.

131. PARNASSIA, Tourn.

305. *P. Caroliniana*, Michx.

Rather rare. Strawberry Is., Niagara R.; Wind-mill Pt., Ont.; Goat Is., Niagara Falls; Bergen, Gen. Co.

132. SAXIFRAGA, L.

306. *S. aizoides*, L.

Very rare. Falls of the Genesee River, Portage, Wyom. Co.

307. *S. Virginiensis* Michx.308. *S. Pennsylvanica*, L.

133. MITELLA, L.

309. *M. diphylla*, Tourn.310. *M. nuda*, L.

Rare. Near Black Creek, Ont., *Clinton*; Bergen, Gen. Co.; Machias, Catt. Co.; Caledonia, Liv. Co., *Clinton*.

134. TIARELLA, L.

311. *T. cordifolia*, L.

135. CHRYSOSPLENIUM, Tourn.

312. *C. Americanum*, Schwein.

ORDER 34. CRASSULACEÆ.

136. PENTHORUM, Gronov.

313. *P. sedoides*, L.

137. SEDUM, Tourn.

314. *S. ACRE*, L.

Rather rare. Niagara Falls; Williamsville, Erie Co., and elsewhere.

315. *S. TELEPHIUM*, L.Rather rare. Machias, Catt. Co., and elsewhere. *H. 221438.*

ORDER 35. HAMAMELACEÆ.

138. HAMAMELIS, L.

316. *H. Virginica*, L.

ORDER 36. HALORAGÆ.

139. MYRIOPHYLLUM, Vaill.

317. *M. spicatum*, L.318. *M. verticillatum*, L.

Rare. Squaw Is., Niagara R.

319. *M. heterophyllum*, Michx.Rare. Strawberry Is., Niagara R., *Clinton*.

140. PROSERPINACA, L.

320. *P. palustris*, L.

Rare. Shore of Lake Erie, Buffalo; Chatauqua Lake, at "The Narrows."

ORDER 37. ONAGRACEÆ.

141. CIRCÆA, Tourn.

321. *C. Lutetiana*, L.322. *C. alpina*, L.

142. GAURA, L.

323. *G. biennis*, L.Rare. Sulphur Springs, Cheektowaga, Erie Co.; near Ft. Erie,
Ont.

143. EPILOBIUM, L.

324. *E. spicatum*, Lam. (*E. angustifolium*, L., var. *b.*)325. *E. palustre*, var. *lineare*, Gray.326. *E. molle*, Torr.327. *E. coloratum*, Muhl.

144. OENOTHERA, L.

328. *O. biennis*, L.329. var. *muricata*, Lindl.330. *O. pumila*, L.

145. LUDWIGIA, L.

331. *L. palustris*, Ell.

ORDER 38. LYTHRACEÆ.

146. LYTHRUM, L.

332. *L. alatum*, Pursh.Rare. Near the track of the B. & S. W. R. R., W. Seneca, Erie
Co., *Clinton*; near Bay View, Erie Co., *Clinton*.

147. NESÆA, Commerson, Juss.

333. *N. verticillata*, HBK.Rather rare. Squaw Is., Niagara R.; Strawberry Is., Niagara
R., *Clinton*; Hanover, Chat. Co. *Ontario*.

ORDER 39. CUCURBITACEÆ.

148. SICYOS, L.

334. *S. angulatus*, L.Rare. West Seneca, Erie Co. *Seneca*

149. ECHINOCYSTIS, Torr. and Gray.

335. *E. lobata*, Torr. and Gray.

Rare. Sulphur Springs, W. Seneca, Erie Co.

ORDER 40. UMBELLIFERÆ.

150. HYDROCOTYLE, Tourn.

336. *H. Americana*, L.

151. SANICULA, Tourn.

337. *S. Canadensis*, L.338. *S. Marilandica*, L.

152. DAUCUS, Tourn.

339. *D. CAROTA*, L.

153. TORILIS, Adans.

340. *T. ANTHRISCUS*, Gærtn.

Rare. Not seen except near Limestone Hill, W. Seneca, Erie
Co. There abundant and spreading.

154. HERACLEUM, L.

341. *H. lanatum*, Michx.

155. PASTINACA, Tourn.

342. *P. SATIVA*, L.

156. ARCHANGELICA, Hoff.

343. *A. hirsuta*, Torr. and Gray.

Rare. Portage, Liv. Co., *Clinton*; Salamanca, Catt. Co.,
Clinton.

344. *A. atropurpurea*, Hoff.

157. ÆTHUSA, L.

345. *A. CYNAPIUM*, L., Aurora, Erie Co., *Clinton*.158. SELINUM, (*Conioselinum Canadensis*, Fischer.)346. *S. Canadense*, Michx.

Rather rare. Springbook, Erie Co.; Bergen, Gen. Co.; Portage,
Wyom. Co.; Jamestown, Chat. Co., *Clinton*; Caledonia, Liv.
Co., *Clinton*.

159. THASPIUM, Nutt.

347. *T. barbinode*, Nutt.348. *T. aureum*, Nutt.

160. PIMPINELLA, L.

349. *P. integerrima*, Benth. and Hook. (*Zizia integerrima*, DC.)

161. CICUTA, L.

350. *C. maculata*, L.351. *C. bulbifera*, L.

162. SIUM, L.

352. *S. cicutæfolium*, Gmelin. (*S. lineare*, Michx.)

163. *BERULA*, Koch.

353. *B. angustifolia*, Koch. ? (*Sium angustifolium*, L.)

Rare. Near Smoke's Creek, W. Seneca, Erie Co.

164. *CRYPTOTÆNIA*, DC.

354. *C. Canadensis*, DC.

165. *CHEROPHYLLUM*, L.

355. *C. SATIVUM*, Lom.

Garden scape., Buffalo, Clinton.

166. *CARUM*.

356. *C. CARUI*, L.

167. *OSMORRHIZA*, Raf.

357. *O. longistylis*, DC.

358. *O. brevistylis*, DC.

168. *CONIUM*, L.

359. *C. MACULATUM*, L.

169. *CORIANDRUM*.

360. *C. SATIVUM*.

Garden scape, Buffalo.

170. *ERIGENIA*, Nutt.

361. *E. bulbosa*, Nutt.

Rare. Buffalo R., Buffalo; Smoke's Cr., W. Seneca, Erie Co.

ORDER 41. *ARALIACEÆ*.

171. *ARALIA*, Tourn.

✓ *A. spinosa*, L.

Stated by *E. S. Burgess* to be spontaneous at Silver Creek and
Panama, Chat. Co. ~~Scirpus~~

362. *A. racemosa*, L.

363. *A. hispida*, Ventenat.

Rather rare. W. Seneca, Erie Co.; Hanover, Chat. Co.; Machias, Catt. Co. ~~Scirpus~~

364. *A. nudicaulis*, L.

365. *A. quinquefolia*, Decsne and Planch.

366. *A. trifolia*, Decsne and Planch.

ORDER 42. CORNACEÆ.

172. CORNUS, Tourn.

367. *C. Canadensis*, L.

Rare. Pine Hill, Cheektowaga; West Seneca, Erie Co.; Bergen, Gen. Co.; Machias, Catt. Co.

368. *C. florida*, L.369. *C. circinata*, L'Her.

Rather rare. Niagara Falls. *Hanar*

370. *C. sericea*, L.371. *C. stolonifera*, Michx.372. *C. paniculata*, L'Her.373. *C. alternifolia*, L.

Rather rare. Hamburg, Erie Co. *Stamony, Hannes*

173. NYSSA, L.

374. *N. multiflora*, Wang.

Rather rare. Woods east of Delaware street, near the Park, Buffalo; southeastern portion of Buffalo. *Fredonia, Hannes*

DIVISION II. MONOPETALÆ.

ORDER 43. CAPRIFOLIACEÆ.

174. LINNÆA, Gronov.

375. *L. borealis*, Gronov.

Rare. Hamburg, Erie Co.; Java, Wyom. Co., *Clinton*; Bergen, Gen. Co.; Caledonia, Liv. Co.

175. SYMPHORICARPUS, Dill.

376. *S. racemosus*, Michx.

Rare, except in gardens. Near Forestville, Chat. Co.; perhaps the outcast of a garden.

Var. *pauciflorus*, Robbins.

Niagara Falls. Planted in a garden, the variety has grown larger and not distinguishable from the type. It may therefore be regarded rather as a condition than a variety.

377. *S. vulgaris*, Michx.

Rare. Near Ft. Erie, Ont. Probably escaped from cultivation.

176. LONICERA, L.

378. *L. sempervirens*, Ait.

Rare. W. Seneca, Erie Co. A garden scape.

L. grata, Ait. ?

Credited to Silver Creek, Chat. Co., by *E. S. Burgess*.

379. *L. parviflora*, Lam.380. var. *Douglasii*, Gray.

Rare. Niagara Falls.

381. *L. hirsuta*, Eaton.

Rare. Silver Lake, Wyom. Co., *Clinton*; Markham's (B. & S. W. R. R.), Catt. Co., *Clinton*; near Westfield, Chat. Co., *Clinton*; Jamestown, Chat. Co.

382. *L. TATARICA*.

Rare. Naturalized in Forest Lawn Cemetery, Buffalo. Also, near Ft. Erie, Ont., and in the woods, near the whirlpool, on the American side of Niagara R.

383. *L. ciliata*, Muhl.*L. cærulea*, L. ?

Attributed to Panama, Chat. Co., by *E. S. Burgess*.

384. *L. oblongifolia*, Muhl.

Rare. Near Akron, Erie Co.; Bergen, Gen. Co.; Caledonia, Liv. Co., *Clinton*.

177. *DIERVILLA*, Tourn.385. *D. trifida*, Mench.178. *TRIOSTEUM*, L.386. *T. perfoliatum*, L.179. *SAMBUCUS*, Tourn.387. *S. Canadensis*, L.388. *S. pubens*, Michx.180. *VIBURNUM*, L.389. *V. Lentago*, L.390. *V. nudum*, L.Rather rare. W. Seneca, Erie Co.; Hanover, Chat. Co.; Port
Colborne, Ont.391. *V. dentatum*, L.

Rather rare. Grand Is., Erie Co.; W. Seneca, Erie Co.

392. *V. pubescens*, Pursh.393. *V. acerifolium*, L.394. *V. Opulus*, L.

Rather rare. W. Seneca, Erie Co.; Bergen, Gen. Co.

395. *V. lantanoides*, Michx.ORDER 44. *RUBIACEÆ*.181. *GALIUM*, L.396. *G. Aparine*, L.397. *G. MOLLUGO*, L.

A rare weed in gardens, Buffalo.

398. *G. asprellum*, Michx.399. *G. trifidum*, L., var. *tinctorium*, Torr. and Gray.400. *G. triflorum*, Michx.401. *G. pilosum*, Gray.402. *G. circæzans*, Michx.403. *G. lanceolatum*, Torr.404. *G. boreale*, L.182. *CEPHALANTHUS*, L.405. *C. occidentalis*, L.183. *MITCHELLA*, L.406. *M. repens*, L.184. *HOUSTONIA*, L.407. *H. purpurea*, L., var. *ciliolata*, Gray.

Rare, except along Niagara R., at and below the Falls. †

408. *H. cærulea*, L.

Rare. Lewiston, Niagara Co.; Salamanca, Catt. Co.

ORDER 45. VALERIANACEÆ.

185. *VALERIANA*, Tourn.409. *V. sylvatica*, Richards.

Rare. Bergen Swamp, Gen. Co.

410. *V. OFFICINALIS*.

Becoming naturalized in places. Buffalo; Hamburg, Erie Co.

186. *FEDIA*, Gärtn.411. *F. OLITORIA*, Vahl.

Rare. Naturalized in northeastern portion of Buffalo, and near Pt. Colborne, Ont.

412. *F. Fagopyrum*, Torr. and Gray.

Rare. Near Sulphur Springs, Cheektowaga, Erie Co.

ORDER 46. DIPSACEÆ.

187. *DIPSACUS*, Tourn.413. *D. SYLVESTRIS*, Mill.

ORDER 47. COMPOSITÆ.

188. *VERNONIA*, Schreb.414. *V. Noveboracensis*, Willd.Rare. Portage, Liv. Co., *Clinton. Chaut.*189. *LIATRIS*, Schreb.415. *L. cylindracea*, Michx.

Rare. Whirlpool woods, Niagara R., American side.

190. *EUPATORIUM*, Tourn.416. *E. purpureum*, L.417. *E. perfoliatum*, L.418. *E. ageratoides*, L.191. *PETASITES*, Tourn.419. *P. palmata*, Watson. (*Nardosmia palmata*, Hook.)Rare. Machias, Catt. Co.; Silver Lake, Wyom. Co., *Clinton*.

192. TUSSILAGO, Tourn.

420. *T. Farfara*, L.

Rather rare. Near Sulphur Spring, Cheektowaga, Erie Co.;
Bergen, Gen. Co.; Caledonia, Liv. Co.

193. ASTER, L.

Microphyllus *var. ericoides*
421. *A. corymbosus*, Ait.

Attributed to the vicinity of Fredonia by *E. S. Burgess*.

421. *A. patens*, Ait.422. *A. lævis*, L.423. var. *cyaneus*, Gray.424. *A. azureus*, Lindl.

Rare. Whirlpool woods, Niagara R., American side, *Clinton*.

425. *A. undulatus*, L.

Rare. Portage, Wyom. Co., *Clinton*.

426. *A. cordifolius*, L.427. *A. sagittifolius*, Willd.428. *A. ericoides*, L.429. var. *villosus*.430. *A. multiflorus*, Ait.431. *A. Tradescanti*, L.432. *A. miser*, L.433. *A. simplex*, Willd.434. *A. tenuifolius*, L.435. *A. longifolius*, Lam.436. *A. puniceus*, L.437. var. *vimineus*, Gray.438. *A. prenanthoides*, Muhl.

Rare. North Collins, Erie Co., *Clinton*; Portage, Wyom. Co.,
Clinton.

439. *A. Novæ-Angliæ*, L.440. var. *roseus*, Gray.

Rare. Ft. Erie, Ont., *Clinton*.

441. *A. acuminatus*, Michx.

Rare. "Counterfeiter's Ledge," Akron, Erie Co., *Clinton*.

442. *A. ptarmicoides*, Torr. and Gray.

Rare. Whirlpool woods, Niagara R., American side.

194. ERIGERON, L.

443. *E. Canadense*, L.444. *E. bellidifolium*, Muhl.445. *E. Philadelphicum*, L.446. *E. annuum*, Pers.

447. *E. strigosum*, Muhl.

195. *DIPLOPAPPUS*, Cass.

448. *D. umbellatus*, Torr. and Gray.

196. *BELLIS*, Tourn.

449. *B. PERENNIS*, L.

Established in lawns in a few places in Buffalo.

197. *SOLIDAGO*, L.

450. *S. squarrosa*, Muhl.

Rare. Near Forest Lawn Cemetery, Buffalo.

451. *S. bicolor*, L.

452. var. *concolor*, Gray.

453. *S. latifolia*, L.

454. *S. cæsia*, L.

455. *S. stricta*, Ait. = *ulmifolia*

Rare. Caledonia, Liv. Co., Clinton. *Peabody*

456. *S. rigida*, L.

457. *S. Ohioensis*, Riddell.

Rare. Bergen Swamp, Gen. Co., Clinton.

458. *S. Houghtonii*, Torr. and Gray.

Rare. Bergen Swamp, Gen. Co., Clinton.

459. *S. sempervirens*, L.

Introduced. Spontaneous in gardens, Buffalo, and disposed to spread.

460. *S. neglecta*, Torr. and Gray.

Rare. Bergen Swamp, Gen. Co., Clinton; Caledonia, Liv. Co., Clinton. *Peabody*

461. *S. patula*, Muhl.

462. *S. arguta*, Ait.

463. var. *junceae*, Gray.

464. *S. Muhlenbergii*, Torr. and Gray.

465. *S. altissima*, L.

466. *S. ulmifolia*, Muhl.

467. *S. nemoralis*, Ait.

468. *S. Canadensis*, L.

469. *S. serotina*, Ait.

470. *S. gigantea*, Ait.

471. *S. lanceolata*, L.

198. *INULA*, L.

472. *I. HELENIUM*, L.

199. POLYMNIA, L.

473. *P. Canadensis*, L.

Rather rare. Smoke's Cr., W. Seneca, Erie Co.; near Lewiston, Niagara Co.

200. SILPHIUM, L.

474. *S. laciniatum*, L.

Spontaneous in gardens, Buffalo, and disposed to spread. Hardly yet established.

475. *S. trifoliatum*, L.

Attributed to Niagara Falls by Torrey, on the authority of Dr. Eddy, but not seen by us.

201. AMBROSIA, Tourn.

476. *A. trifida*, L.

The var. *integrifolia*, near the bridge of the L. S. & M. S. R. R., over Buffalo R., *Clinton*.

477. *A. artemisiæfolia*, L.

202. XANTHIUM, Tourn.

478. *H. strumarium*, L.479. *H. spinosum*, L.

Rare. A "railroad weed," not lately seen, Buffalo.

203. HELIOPSIS, Pers.

480. *H. lævis*, Pers.481. var. *scabra*. Gray.

204. ECHINACEA, Mœnch.

482. *E. purpurea*, Mœnch. (?)

Very rare. A single plant was seen by Judge Clinton a mile or two east from E. Buffalo station. Possibly *E. angustifolia*, DC.

205. RUDBECKIA, L.

483. *R. laciniata*, L.484. *R. hirta*, L.

LEPACHYS, Raf.

L. pinnata, Torr. and Gray.

Rare. Collected in Chat. Co., on the shore of Lake Erie, by Dr. H. P. Sartwell. Not since reported. Probably not within our territory.

206. HELIANTHUS, L.

485. *H. annuus*, L.486. *H. giganteus*, L. (?)

Rare. Salamanca, Catt. Co., *Clinton*; Fredonia, Chat. Co.,
Petit, ex fide, *Burgess*.

487. *H. strumosus*, L.488. *H. divaricatus*, L.489. *H. decapetalus*, L.490. *H. doronicoides*, Lam.

The cultivated variety, formerly known as *H. tuberosus*, has escaped from cultivation in some places in and near Buffalo.

207. COREOPSIS, L.

491. *C. trichosperma*, Michx. *Peabody Swamp*

Not seen except in the S. E. portion of Buffalo; there abundant.

492. *C. tinctoria*, Nutt.

Spontaneous in gardens, and escaping, Buffalo.

C. Drummondii.

Spontaneous in gardens, Buffalo.

208. BIDENS, L.

493. *B. frondosa*, L.494. *B. connata*, Muhl.495. *B. cernua*, L.496. *B. chrysanthemoides*, Michx. (?)

Possibly our *B. chrysanthemoides* is only a form of *B. cernua*, L.

497. *B. Beckii*, Torr.

Rare. "Smuggler's Run," Squaw Is., Niagara R., Erie Co.,
Clinton.

498. *B. bipinnata*, L.

Rare. A "railroad weed," Buffalo; not lately seen, *Clinton*.

209. DYSODIA, Cav.

499. *D. chrysanthemoides*, Lag.

Rare. A "railroad weed," Ft. Erie, Ont., not lately seen.

210. HELENIUM, L.

500. *H. autumnale*, L.

211. GALINSOGA, Ruiz and Pav.

501. *G. parviflora*, Cav.

Rare. Court yards and streets, Buffalo. Introduced.

212. MARUTA, Cass.

502. *M. cotula*, DC.

213. ANTHEMIS, L.

503. A. ARVENSIS, L.

Rare. A weed in nursery grounds, Pine Hill, Cheektowaga, Erie Co.

214. ACHILLEA, L.

504. A. MILLEFOLIUM, L.

The rose-colored variety in, the vicinity of Forest Lawn Cemetery, Buffalo, and at Caledonia, Liv. Co.

215. LEUCANTHEMUM, Tourn.

505. L. VULGARE, Lam.

216. CHRYSANTHEMUM, L.

506. C. PARTHENIUM, Pers. (*Leucanthemum Parthenium*, Godron.)

A weed in some gardens. Buffalo; Pt. Colborne, Ont.

217. BALSAMITA, Willd.

507. B. VULGARIS, Willd.

Rare. Escaped from gardens, Buffalo, and elsewhere.

218. MATRICARIA, Tourn.

508. M. CHAMOMILLA, L.

Rare. A garden weed; Cheektowaga, Erie Co.

219. TANACETUM, L.

509. T. VULGARE, L.

510. var. *crispum*, Gray.

220. ARTEMISIA, L.

511. A. *Canadensis*, Michx.

Rare. Irving, Chat. Co.; Pt. Abino, Ont.

512. A. VULGARIS, L.

Near the lower Suspension Bridge, Niagara R., American side.

513. A. *biennis*, Willd.

Recently introduced from the west, but already very common.

With us, apparently, always annual.

514. A. ABROTANUM, L.

Escaped from gardens, Buffalo, and elsewhere.

515. A. ABSINTHIUM, L.

Milford, Chat. Co., *Burgess*. An escape.

221. GNAPHALIUM, L.

516. G. *decurrens*, Ives.

Less common than the next. The Plains, Buffalo.

517. G. *polycephalum*, Michx.

518. *G. uliginosum*.

222. ANTENNARIA, Gærtn.

519. *A. margaritacea*, R. Br.

520. *A. plantaginifolia*, Hook.

223. ERECHTHITES, Raf.

521. *E. hieracifolia*, Raf.

224. CACALIA, L.

522. *C. suaveolens*, L.

Avon, Liv. Co., *B. D. Greene*.

523. *C. atriplicifolia*, L.

Rare. Portage, Liv. Co., *Clinton*; Bemus Point, Chat. Lake.

225. SENECEO, L.

524. *S. vulgaris*, L.

A rather rare garden weed, Buffalo.

525. *S. aureus*, L.

526. var. *Balsamitæ*, Gray.

Niagara R., below the Falls.

226. CENTAUREA, L.

527. *C. cyanus*, L.

Spontaneous in gardens, and escaped, Buffalo and elsewhere.

227. CIRSIUM, Tourn.

528. *C. lanceolatum*, Scop.

529. *C. discolor*, Spreng.

530. *C. altissimum*, Spreng.

531. *C. muticum*, Michx.

Rare. Bergen Swamp, Gen. Co., *Clinton*; Caledonia, Liv. Co.,
Clinton. T.

532. *C. pumilum*, Spreng.

Rather rare. The Plains, Buffalo.

533. *C. arvense*, Scop.

228. ONOPORDON, Vaill.

534. *O. acanthium*, L.

Occasionally escaped. Abbott Road, W. Seneca, Erie Co.;
Bergen, Gen. Co.; Jamestown, Chat. Co., *Clinton*.

229. SILYBUM, Vaill.

535. *S. marianum*, Gærtn.

Occasionally escaped, Buffalo.

230. ARCTIUM, L.

536. A. LAPPA, L. var. **major**. (*Lappa officinalis*, Allioni.)537. var. **tomentosa**, Gray.

Rare. Forest Lawn Cemetery, Buffalo, Clinton.

231. LAMPSANA, Tourn.

538. L. COMMUNIS, L.

Rare. In gardens and court-yards, Buffalo.

232. CICHORIUM, Tourn.

539. C. INTYBUS, L.

Not common. Roadsides; near Scajaquady's Cr., Buffalo; Pine Hill, Cheektowaga, Erie Co.; near Angola, Erie Co.

KRIGIA, Schreb.

K. amplexicaulis, Nutt. (*Cynthia Virginica*, Don.)

Rare. Panama, Chat. Co., Burgess. Perhaps entering our territory at the southwest.

233. LEONTODON, L., Juss.

540. L. AUTUMNALE, L.

Rare. Buffalo. Probably introduced with "English Lawn Grass."

234. HIERACIUM, Tourn.

541. H. Canadense, Michx.

542. H. scabrum, Michx.

543. H. Gronovii, L.

544. H. venosum, L.

545. H. paniculatum, L.

235. PRENANTHES, L.

546. P. alba, L. (*Nabalus albus*, Hook.)547. var. **Serpentaria**.548. P. altissima, L. (*Nabalus altissimus*, Hook.)549. P. crepidina, Michx. ? (*Nabalus crepidineus*, DC.)Very rare. Wheelbarrow Pt., Buffalo. Only two plants seen, and those not lately. Some doubt exists as to the species, but it surely better corresponds with *P. crepidina* than with any other described in Gray's Manual.

236. TARAXACUM, Haller.

550. T. DENS-LEONIS, Desf.

237. LACTUCA, Tourn.

551. L. Canadensis, L.

552. *L. SATIVA*, L.

Often spontaneous.

553. *L. leucophæa*, Benth. (*Mulgedium leucophæum*, DC.)

238. *SONCHUS*, L.

554. *S. OLERACEUS*, L.

555. *S. ASPER*, Vill.

556. *S. ARVENSIS*, L.

Rare. Angola, Erie Co., *Clinton*.

ORDER 48. LOBELIACEÆ.

239. *LOBELIA*, L.

557. *L. cardinalis*, L.

558. *L. syphilitica*, L.

559. *L. inflata*, L.

L. spicata, Lam.

Attributed to Clymer, Chat. Co., by *E. S. Burgess*.

560. *L. Kalmii*, L.

Rather rare. Lake shore, near the foot of York street, Buffalo;
Wind-mill Pt. and Pt. Abino, Ont.; Goat Is., Niagara Falls;
Bergen Swamp, Gen. Co.

ORDER 49. CAMPANULACEÆ.

240. *CAMPANULA*, Tourn.

561. *C. rotundifolia*, L.

Not common. Niagara R., at and below the Falls; Eighteen-mile Creek, Hamburg, Erie Co.

562. *C. aparinoides*, Pursh.

563. *C. Americana*, L.

Not common. Smoke's Cr., W. Seneca, Erie Co. *Attn: we green that*

564. *C. GLOMERATA*, L. ?

Rare. Along the turnpike, Hamburg, Erie Co. Some doubt, however, remains as to the identity of the species.

565. *C. RAPUNCULOIDES*, L.

241. *SPECULARIA*, Heister.

566. *S. perfoliata*, A. DC.

Very abundant at Pt. Abino and Port Colborne, Ont.; elsewhere rather rare.

ORDER 50. ERICACEÆ.

242. GAYLUSSACIA, H. B. K.

567. *G. frondosa*, Torr. and Gray.568. *G. resinosa*, Torr. and Gray.

243. VACCINIUM, L.

569. *V. Oxycoccus*, L.Port Colborne, Ont.; Hanover, Chat. Co.; Bergen Swamp, Gen. Co., *Clinton*, and elsewhere.570. *V. macrocarpon*, Ait.

Hanover, Chat. Co. x

571. *V. stamineum*, L.

Rare. The Plains, Buffalo.

572. *V. Pennsylvanicum*, Lam.573. *V. Canadense*, Kalm.

Rare. Machias, Catt. Co.; "Rock City," near Salamanca, Catt. Co.

574. *V. vacillans*, Solander.575. *V. corymbosum*, L.

244. CHIOGENES, Salisb.

576. *C. hispidula*, Torr. and Gray.

Rare. Hanover, Chat Co.; Bergen, Gen. Co.

245. ARCTOSTAPHYLOS, Adans.

577. *A. Uva-ursi*, Spreng.

Rare. Pt. Abino, Ont.; Niagara R., at and below the Falls.

246. EPIGÆA, L.

578. *E. repens*, L.

Rare. Gowanda, Erie Co.; "Rock City," near Salamanca, Catt. Co.; Portage, Liv. and Gen. Cos.; Jamestown, Chat. Co.

247. GAULTHERIA, Kalm.

579. *G. procumbens*, L.

248. CASSANDRA, Don.

580. *G. calyculata*, Don.Formerly *Cassandra*, J. J. Bosc. *Clinton*, V. Co.;
Sardinia, Erie Co.; Hanover, Chat. Co.; Machias, Catt. Co.

249. ANDROMEDA, L.

581. *A. polifolia*, L.Rare. Black Creek, Ont., *Clinton*; near Akron, Erie Co.; Java Lake, Wyom. Co., *Clinton*; Machias, Catt. Co.; "Randall's Fly," near Milford, Chat. Co., *Burgess*.

250. KALMIA, L.

K. latifolia, L.

Rare. Olean, Catt. Co., *Clinton*. Not unlikely to occur in the southeastern portion of our territory.

582. **K. glauca**, Ait.

Rare. Machias, Catt. Co.

251. AZALEA, L.

583. **A. nudiflora**, L.

Rather rare. Near Batavia and Bergen, Gen. Co.; Machias, Catt. Co.; "Rock City," near Salamanca, Catt. Co.; Silver Lake, Wyom. Co.; Jamestown, Chat. Co.

252. RHODODENDRON, L.

584. **R. maximum**, L.

Rare. Hamburg, Erie Co.; Machias, Catt. Co.; Clear Creek, Chat. Co.

253. LEDUM, L.

585. **L. latifolium**, Ait.

Rare. Black Creek, Ont., *Clinton*; Bergen, Gen. Co.; Machias, Catt. Co.

254. PYROLA, Tourn.

586. **P. rotundifolia**, L.

Rather rare. Woods east of Delaware street, and north of the Park, Buffalo; and elsewhere.

var. **uliginosa**, Gray.

Rare. Near Akron, Erie Co.

587. **P. elliptica**, Nutt.588. **P. chlorantha**, Swartz.589. **P. secunda**, L.

255. MONESES, Salisb.

590. **M. uniflora**, Gray.

Rare. Pine Hill, Cheektowaga, Erie Co., *Clinton*; but rather abundant at Pt. Abino, Ont. H_2

256. CHIMAPHILA, Pursh.

591. **C. umbellata**, Nutt.592. **C. maculata**, Pursh.

Rare. Hanover, Chat. Co., and elsewhere.

257. PTEROSPORA, Nutt.

593. **P. Andromedea**, Nutt.

Rare. Whirlpool, American side, *Clinton*; Portage, Gen. Co.

258. MONOTROPA, L.

594. *M. uniflora*, L.595. *M. Hypopitys*, L.

Rare. The Plains, Buffalo, *Clinton*; Pt. Abino, Ont.; Goat Is., Niagara Falls, *Clinton*; Eighteen-mile Cr., Evans, Erie Co.; Bemus Pt., Chat. Co.

ORDER 51. AQUIFOLIACEÆ.

259. ILEX, L.

596. *I. monticola*, Gray.

Rare. "Rock City," near Salamanca, Catt. Co.; Panama Rocks, Chat. Co., *Burgess*.

597. *I. verticillata*, Gray.

I. verticillata *Burgess* 260. NEMOPANTHES, Raf.

598. *N. Canadensis*, DC.

ORDER 52. PLANTAGINACEÆ.

261. PLANTAGO, L.

599. *P. MAJOR*, L.600. *P. Kamschatica*, Cham.

Undoubtedly indigenous. Perhaps not very rare. Certainly abundant along Rush Cr., Hamburgh, Erie Co., and readily distinguished from *P. major*, by the pink color at the base of the leaves.

601. *P. LANCEOLATA*, L.

ORDER 53. PRIMULACEÆ.

262. PRIMULA, L.

602. *P. Mistassinica*, Michx.

Very rare. Only found at Portage, Wyom. Co.

263. TRIENTALIS, L.

603. *T. Americana*, Pursh.

264. LYSIMACHIA, Tourn.

604. *L. thyrsiflora*, L.605. *L. stricta*, Ait.606. *L. quadrifolia*, L.

Rather rare. Machias, Catt. Co.; Salamanca, Catt. Co.; Silver Lake, Wyom. Co.; Portage, Wyom. Co.

607. *L. ciliata*, L.

608. *L. lanceolata*, L.

609. *L. longifolia*, Pursh.

610. *L. NUMMULARIA*, L.

Rare. A garden escape.

265. *ANAGALLIS*, Tourn.

611. *A. ARVENSIS*, L.

A rare weed in gardens, Buffalo.

266. *SAMOLUS*, L.

612. *S. Valerandi*, L., var. *Americanus*, Gray.

ORDER 54. LENTIBULACEÆ.

267. *UTRICULARIA*, L.

613. *U. vulgaris*, L.

614. *U. intermedia*, Hayne.

Rare. Squaw Is., Niagara R.

615. *U. cornuta*, Michx.

Rather rare. Niagara Falls, Canadian side, *Clinton*; Cassadaga Lake, Chat. Co.

268. *PINGUICULA*, L.

616. *P. vulgaris*.

Very rare. Portage, Wyom. Co.

ORDER 55. BIGNONIACEÆ.

269. *MARTYNIA*, L.

617. *M. proboscidea*, Glox.

Rare. Occasionally escaped from gardens, where it is often spontaneous. Buffalo; Lewiston, Niagara Co.

ORDER 56. OROBANCHACEÆ.

270. *EPIPHEGUS*, Nutt.

618. *E. Virginiana*, Bart.

271. *CONOPHOLIS*, Wallroth.

619. *C. Americana*, Wallroth.

Rare. The Plains, Buffalo; Tonawanda, Erie Co., *Clinton*;
Hamburgh, Erie Co.; Pt. Abino, Ont.

272. *APHYLLON*, Mitchell.

620. *A. uniflorum*, Torr. and Gray.

ORDER 57. SCROPHULARIACEÆ.

273. VERBASCUM, L.

621. *V. THAPSUS*, L.622. *V. BLATTARIA*, L.

274. LINARIA, Tourn.

623. *L. VULGARIS*, Mill.

275. ANTIRRHINUM, L.

624. *A. ORONTIUM*, L.

A rare garden weed, Buffalo.

276. SCROPHULARIA, Tourn.

625. *S. nodosa*, L.

277. COLLINSIA, Nutt.

626. *C. verna*, Nutt.Rare. Smoke's Cr., W. Seneca, Erie Co.; "Forks of the Broken Straw," Chat. Co., *Burgess*.

278. CHELONE, Tourn.

627. *C. glabra*, L.

279. PENTSTEMON, Mitchell.

628. *P. pubescens*, Solander.

Not very common. The Plains, Buffalo; Grand Is., Erie Co.; Port Colborne, Ont.; Niagara Falls.

280. MIMULUS, L.

629. *M. ringens*, L.630. *M. alatus*, Ait.Much less common than *M. ringens*. Scajauquady's Cr., Buffalo, and elsewhere.

281. GRATIOLA, L.

631. *G. Virginiana*, L.

282. ILYSANTHES, Raf.

632. *I. gratioloides*, Benth.

Not very common. Lake shore, Buffalo, and elsewhere.

283. VERONICA, L.

633. *V. Virginica*, L.Rare. Portage, Liv. Co., *Clinton*; Bemus Pt., Chat. Co.; Avon, Liv. Co., *Sartwell*.634. *V. Anagallis*, L.Rare. Alabama, Gen. Co., *Clinton*; Bergen, Gen. Co.635. *V. Americana*, Schweinitz.

636. *V. scutellata*, L.
 637. *V. officinalis*, L.
 638. *V. serpyllifolia*, L.
 639. *V. peregrina*, L.
 640. *V. ARVENSIS*, L.
 641. *V. CHAMÆDRYS*, L.

Very rare. Found growing in a roadside, Buffalo, and perpetuated.

284. *GERARDIA*, L.

642. *G. purpurea*, L.

Rare. Strawberry Is., Niagara R.; Wind-mill Pt., Ont.; Niagara Falls. *reubens*

643. *G. tenuifolia*, Vahl.

Not very common. The Plains, Buffalo; W. Seneca, Erie Co.

644. *G. flava*, L.

645. *G. quercifolia*, Pursh. *Whirlpool Woods*

646. *G. integrifolia*, Gray.

Rare. Salamanca, Catt. Co., *Clinton*.

285. *CASTILLEIA*, Mutis.

647. *C. coccinea*, Spreng.

Rather rare. Northeastern part of Buffalo; near the Whirlpool, Niagara R., Canadian side, and elsewhere.

286. *PEDICULARIS*, Tourn.

648. *P. Canadensis*, L.

649. *P. lanceolata*, Michx.

Rare. Low grounds in Forest Lawn Cemetery, Buffalo; Islands of Niagara R.

287. *MELAMPYRUM*, Tourn.

650. *M. Americanum*, Michx.

ORDER 58. *ACANTHACEÆ*.

288. *DIANTHERA*, Gronov.

651. *D. Americana*, L.

Not very common. Buffalo R.; Niagara R., especially on the American side, a short distance from Goat Is.

ORDER 59. *VERBENACEÆ*.

289. *VERBENA*, L.

652. *V. hastata*, L.

653. *V. urticifolia*, L.

V. Aubletia, L.

Spontaneous in gardens. Buffalo.

290. *PHRYMA*, L.

654. *P. Leptostachya*, L.

ORDER 60. MENTHACEÆ.

291. *TEUCRIUM*, L.

655. *T. Canadense*, L.

A white flowering variety at Pt. Abino. Ont.

292. *MENTHA*, L.

656. *M. VIRIDIS*, L.

657. *M. PIPERITA*, L.

Cheektowaga, Erie Co. and elsewhere. Not common.

658. *M. Canadensis*, L.

659. var. *glabrata*. Benth.

293. *LYCOPUS*, L.

660. *L. Virginicus*, L.

661. *L. Europæus*, L.

294. *HYSSOPUS*, L.

662. *H. OFFICINALIS*, L.

Occasionally escaped near Buffalo.

295. *PYCNANTHEMUM*, Michx.

663. *P. incanum*, Michx.

Rare. Portage, Wyom. Co., *Clinton*.

664. *P. lanceolatum*, Pursh.

A variety with proliferous heads, on Squaw Is., Niagara R.

665. *P. linifolium*, Pursh.

296. *THYMUS*, L.

666. *T. SERPYLLUM*, L.

Thoroughly established in a cemetery at Williamsville, Erie Co.

297. *CALAMINTHA*, Moench.

667. *C. glabella*, Benth., var. *Nuttallii*, Gray.

Ft. Erie, and thence along the lake shore to Pt. Abino, Ont.;
Niagara Falls.

668. *C. Clinopodium*, Benth.

298. MELISSA, L.

669. M. OFFICINALIS, L.

Escaped in many places.

299. HEDEOMA, Pers.

670. H. pulegioides, Pers.

300. COLLINSONIA, L.

671. C. Canadensis, L.

301. SALVIA, L.

672. S. OFFICINALIS, L.

Established in the edge of a wood near DeVeaux College, Niag.
Co., opposite the Whirlpool, far from cultivation, and spread-
ing.

302. MONARDA, L.

673. M. didyma, L.

Rare. Forest Lawn Cemetery, Buffalo; Machias, Catt. Co.,
and elsewhere.

674. M. fistulosa, L.

303. BLEPHILIA, Raf.

675. B. hirsuta, Benth.

Rare. Clear Cr., Chat. Co.

304. LOPHANTHUS, Benth.

676. L. nepetoides, Benth.

Rare. Pt. Abino, Ont.; Aurora, Erie Co., Clinton.

677. L. scrophulariæfolius, Benth.

305. NEPETA, L.

678. N. CATARIA, L.

679. N. GLECHOMA, L.

306. DRACOCEPHALUM, L.

680. D. parviflorum, Nutt.

Rare. Sparingly found at Ft. Erie, Ont.

307. PHYSOSTEGIA, Benth.

681. P. Virginiana, Benth.

Rather rare, Islands in Niagara R.; Pt. Abino, Ont.

308. BRUNELLA, Tourn.

682. B. vulgaris, L.

309. SCUTELLARIA, L.

683. *S. parvula*, Michx.Rather rare. Lake shore, near foot of York street, Buffalo;
Pt. Abino, Ont.; Goat Is., Niagara Falls.684. *S. galericulata*, L.685. *S. lateriflora*, L.

310. MARRUBIUM, L.

686. *M. vulgare*, L.

Rather rare. The Plains, Buffalo, and elsewhere.

311. GALEOPSIS, L.

687. *G. tetrahit*, L.

312. STACHYS, L.

688. *S. palustris*, L.689. var. *aspera*, Gray.

313. LEONURUS, L.

690. *L. cardiaca*, L.

314. LAMIUM, L.

691. *L. amplexicaule*, L.692. *L. purpureum*, L.

A rare garden weed, Buffalo.

315. BALLOTA, L.

693. *B. nigra*, L.

A rare garden weed, Buffalo, not lately seen.

ORDER 61. BORRAGINACEÆ.

316. ECHIUM, Tourn.

694. *E. vulgare*, L.

Rare. Niagara Falls.

317. SYMPHYTUM, Tourn.

695. *S. officinale*, L.Rare. Roadsides in the suburbs of Buffalo; Attica, Wyom. Co.;
Portage, Liv. Co., Clinton.

318. ONOSMODIUM, Michx.

696. *O. Carolinianum*, DC.

319. LITHOSPERMUM, Tourn.

697. *L. arvense*, L.

698. *L. officinale*, L.

Rare, except at Niagara Falls.

699. *L. latifolium*, Michx.

700. *L. hirtum*, Lehm.

Rare. Sand-drifts of the lake shore, Ft. Erie and Pt. Abino,
Ont; near Batavia, Gen. Co.

320. *MERTENSIA*, Roth.

701. *M. Virginica*, DC.

321. *MYOSOTIS*, L.

702. *M. palustris*, Withering, var. *laxa*, Gray.

703. *M. arvensis*, Hoffman.

Rare. A weed in a few gardens, Buffalo; Pine Hill, Cheektowaga, Erie-Co.

704. *M. verna*, Nutt.

Rare. The Plains, Buffalo.

322. *ECHINOSPERMUM*, Swartz.

705. *E. LAPPULA*, Lehm.

323. *CYNOGLOSSUM*, Tourn.

706. *C. officinale*, L.

707. *C. Virginicum*, L.

Rare. Whirlpool woods, Niagara R., American side; Akron,
Erie Co.; "Rock City," Salamanca, Catt. Co.

708. *C. Morisoni*, DC.

324. *HELIOPHYTUM*, Cham., DC.

709. *H. Indicum*, DC.

A rare garden weed, probably precarious. Buffalo.

ORDER 62. HYDROPHYLLACEÆ.

325. *HYDROPHYLLUM*, L.

710. *H. Virginicum*, L.

711. *H. Canadense*, L.

Less common than *H. Virginicum*. Buffalo R.; Hanover,
Chat. Co.

ORDER 63. POLEMONIACEÆ.

326. *POLEMONIUM*, L.

712. *P. reptans*, L.

Southeastern part of Buffalo; but growing scarce.

327. PHLOX, L.

- 713.
- P. paniculata*
- , L.

Spontaneous in gardens; escaped, *Clinton*.

- 714.
- P. maculata*
- , L.

One plant seen growing "wild," in woods near Delevan avenue, Buffalo, now included in Forest Lawn Cemetery.

- 715.
- P. divaricata*
- , L.

716. var.
- Laphamii*
- , Wood.

- 717.
- P. subulata*
- , L.

Found many years ago on low sand-dunes near the foot of Genesee street, Buffalo; banks of Allen's Cr., Le Roy, Gen. Co., *Clinton*; banks of Wolf Cr., near Portage, Wyom. Co., *Clinton*.

ORDER 64. CONVOLVULACEÆ.

328. IPOMÆA, L.

- 718.
- I. purpurea*
- , Lam.

Spontaneous in gardens. Rarely escaped.

- 719.
- I. pandurata*
- , Meyer.

Rare. In a field on the Plains, near the Erie County Almshouse, Buffalo.

329. CONVULVULUS, L.

- 720.
- C. arvensis*
- , L.

Rather rare. Waste places and roadsides, Buffalo; Lewiston, Niagara Co.

- 721.
- C. Sepium*
- , L. (
- Calystegia Sepium*
- , R. Br.)

- 722.
- C. spithamæus*
- , L. (
- Calystegia spithamæa*
- , Pursh.)

Very rare. One specimen only found. Whirlpool woods, Niagara R., Ont., *Clinton*.

330. CUSCUTA, Tourn.

- 723.
- C. EPILINUM*
- , Weihe.

Rare. In flax fields, Niagara Co.

- 724.
- C. inflexa*
- , Engelm.

Rare. Youngstown, Niagara Co.

- 725.
- C. Gronovii*
- , Willd.

ORDER 65. SOLANACEÆ.

331. SOLANUM, Tourn.

- 726.
- S. DULCAMARA*
- , L.

727. *S. NIGRUM*, L.

728. *S. CAROLINENSE*, L.

Rare. Along the Buffalo & Lake Huron Railway track at Ft. Erie, Ont.; along the track of the Lake Shore & Michigan Southern Railroad, in Buffalo.

332. *PHYSALIS*, L.

729. *P. pubescens*, L.

Rather rare. Near the lake shore, W. Seneca, Erie Co.

730. *P. viscosa*, L.

731. *P. Philadelphica*, L. ?

333. *NICANDRA*, Adans.

732. *N. PHYSALOIDES*, Gaertn.

Occasional. Buffalo; Ft. Erie, Ont.

334. *ATROPA*, L.

733. *A. BELLADONNA*, L.

A rare garden weed, Buffalo.

335. *LYCIUM*, L.

734. *L. VULGARE*, Dunal.

A garden scape. Niagara Falls.

336. *HYOSCYAMUS*, Tourn.

735. *H. NIGRUM*, L.

Rather rare. Waste places near the Erie County Penitentiary, Buffalo; Ft. Erie, Ont.

337. *DATURA*, L.

736. *D. STRAMONIUM*, L.

Rather rare. Youngstown, Niagara Co.

737. *D. TATULA*, L.

Waste places, Buffalo, and elsewhere. Here more common than *D. Stramonium*.

338. *NICOTIANA*, L.

738. *N. RUSTICA*, L.

Rare. Ft. Erie, Ont., and elsewhere.

ORDER 66. GENTIANIACEÆ.

339. *FRASERA*, Walt.

739. *F. Caroliniensis*, Walt.

Rare. The Plains, Buffalo; Tonawanda, Erie Co. A perennial! But often dying as soon as the seed is matured.

340. GENTIANA, L.

740. *G. quinqueflora*, Lam.

Rather rare. The Plains, Buffalo.

741. *G. crinita*, Frœl.

Rare. Islands of Niagara R.; Hamburg, Erie Co.; Caledonia, Liv. Co.

742. *G. detonsa*, Fries.

Rare. Niagara Falls.

743. *G. Andrewsii*, Griseb.744. var. *albiflora*, Squaw Is. and Strawberry Is., Niagara R.; Salamanca, Catt. Co., Clinton.745. *G. puberula*, Michx.

Very rare. Four or five plants only noticed in the edge of a wood on the Plains, Buffalo.

341. MENYANTHES, Tourn.

746. *M. trifoliata*, L.Rather rare. Pt. Abino, Ont.; Bergen Swamp, Gen. Co.; Hanover, Chat. Co.; Machias, Catt. Co. *Cassadaga Is., Beaulieu*

ORDER 67. APOCYNACEÆ.

342. APOCYNUM, Tourn.

747. *A. androsæmifolium*, L.748. *A. cannabinum*, L.

343. VINCA, L.

749. *V. minor*, L.

Escaped into roadsides in a few places, Forest Lawn Cemetery, Buffalo, and elsewhere.

ORDER 68. ASCLEPIADACEÆ.

344. ASCLEPIAS, L.

750. *A. Cornuti*, Decaisne.751. *A. phytolaccoides*, Pursh.752. *A. quadrifolia*, Jacq.

Rare. Whirlpool woods, Niagara R., American side.

753. *A. incarnata*, L.

A variety with white flowers, noticed in southeastern portion of Buffalo.

754. *A. tuberosa*, L.

Abundant upon the Plains, Buffalo; near the Whirlpool, on either side of Niagara R., and in a few other places.

755. *A. verticillata*, L.

Rare. Whirlpool woods, Niagara R., American side.

345. *VINCETOXICUM*, Moench.

756. *V. NIGRUM*. Moench.

Rare. A garden weed. Buffalo. Not lately seen.

ORDER 69. OLEACEÆ.

346. *LIGUSTRUM*, Tourn.

757. *L. VULGARE*, L.

Rarely escaped, Buffalo.

347. *FRAXINUS*, Tourn.

758. *F. Americana*, L.

759. *F. pubescens*, Lam.

760. *F. viridis*, Michx. f.

761. *F. sambucifolia*, Lam.

DIVISION III. A P E T A L Æ.

ORDER 70. ARISTOLOCHIACEÆ.

348. ASARUM, Tourn.

762. *A. Canadense*, L.

ORDER 71. PHYTOLACCACEÆ.

349. PHYTOLACCA, Tourn.

763. *P. decandra*, L.

ORDER 72. CHENOPODIACEÆ.

350. CHENOPODIUM, L.

764. *C. ALBUM*, L.765. *C. GLAUCUM*, L.

Rather rare. Roadsides in Buffalo.

766. *C. URBICUM*, L.Rather rare. With *C. glaucum*.767. *C. HYBRIDUM*, L.768. *C. BOTRYS*, L.

Rather rare. Shore of Niagara R., Buffalo; Ft. Erie, Ont.

769. *C. AMBROSIODES*, L., var. *ANTHELMINTICUM*, Gray.

Rare. Ft. Erie, Ont.

351. BLITUM, Tourn.

770. *B. capitatum*, L.Rather rare. Gowanda, Erie Co.; Hanover, Chat. Co.; Machias, Catt. Co. *Hanover*

352. ATRIPLEX, Tourn.

771. *A. patula*, L., var. *hastata*, Gray.772. var. *littoralis*, Gray.

353. CORISPERMUM, Ant. Juss.

773. *C. hyssopifolium*, L.

Rare. Shore of Niagara R., Buffalo; Lake shore, above Ft. Erie, Ont.

ORDER 73. AMARANTACEÆ.

354. AMARANTUS, Tourn.

774. A. HYPOCHONDRIACUS, L.

775. A. RETROFLEXUS, L.

776. var. HYBRIDUS, Gray.

777. A. ALBUS, L.

778. A. SPINOSUS, L.

Rare. Along railroad tracks in the southeastern portion of Buffalo. Not lately seen.

ORDER 74. POLYGONACEÆ.

355. POLYGONUM, L.

779. P. ORIENTALE, L.

Spontaneous in gardens and escaped, Buffalo.

780. P. Pennsylvanicum, L.

781. P. incarnatum, Ell.

Rather rare. Southeastern portion of Buffalo, *Clinton*; Sulphur Spring, Cheektowaga, Erie Co., *Clinton*.

782. L. PERSICARIA, L.

783. L. Hydropiper, L.

784. P. acre, HBK.

785. P. hydropiperoides, Michx.

786. P. amphibium, L., var. aquaticum, Willd.

Rare. Strawberry Is., Niagara R., *Clinton*.

787. var. terrestre, Willd.

Rare. Southeastern portion of Buffalo, *Clinton*; Pt. Abino, Ont., *Clinton*; Strawberry Is., Niagara R., *Clinton*.

788. P. Hartwrightii, Gray.

Rare. Niagara R., near the upper or new ferry to Grand Is., *Clinton*; Pt. Abino, Ont., *Clinton*.

789. P. Virginianum, L.

790. P. aviculare, L.

791. P. erectum, L.

792. P. arifolium, L.

793. P. sagittatum, L.

794. P. CONVULVULUS, L.

795. P. dumetorum, L.

356. FAGOPYRUM, Tourn.

796. F. ESCULENTUM, Mœench.

357. RUMEX, L.

797. *R. orbiculatus*, Gray.Rare. Buffalo; *Clinton*.798. *R. Brittanica*, L.Rather rare. Southeastern portion of Buffalo, *Clinton*; Smoke's Cr., W. Seneca, Erie Co., *Clinton*; Bay View, Hamburgh, Erie Co., *Clinton*.799. *R. verticillatus*, L.800. *R. CRISPUS*, L.801. *R. OBTUSIFOLIUS*, L.802. *R. ACETOSELLA*, L.

ORDER 75. LAURACEÆ.

358. SASSAFRAS, Nees.

803. *S. officinale*, Nees.

359. LINDERNA, Thunberg.

804. *L. Benzoin*, Meisner.

ORDER 76. THYMELACEÆ.

360. DIRCA, L.

805. *D. palustris*, L.

ORDER 77. ELÆAGNACEÆ.

361. SHEPHERDIA, Nutt.

806. *S. Canadensis*, Nutt.

ORDER 78. SANTALACEÆ.

362. COMANDRA, Nutt.

807. *C. umbellata*, Nutt.808. *C. livida*, Richardson. ?It seems altogether likely that this is the species noticed in Bergen Swamp, by *J. A. Paine*.

ORDER 79. SAURURACEÆ.

363. SAURURUS, L.

809. *S. cernuus*, L.

ORDER 80. CERATOPHYLLACEÆ.

364. CERATOPHYLLUM, L.

810. *C. demersum*, L., var. *echinatum*, Gray.

ORDER 81. CALLITRICHIACEÆ.

365. CALLITRICHE, L.

811. *C. verna*, L.

ORDER 82. EUPHORBIACEÆ.

366. EUPHORBIA, L.

812. *E. polygonifolia*, L.

813. *E. maculata*, L.

814. *E. hypericifolia*, L.

Rather rare. Track, of the L. S. & M. S. R. R., Buffalo; Silver Creek, Chat. Co.

815. *E. corollata*, L.

Rare. Portage, Wyom. Co., *Clinton*.

816. *E. PLATYPHYLLA*, L.

817. *E. HELIOSCOPIA*, L.

818. *E. ESULA*, L.

Rare. Shore of Niagara R., between Black Rock and Tonawanda, *John F. Cowell*; Attica, Wyom. Co., *Clinton*.

819. *E. CYPARISSIAS*, L.

Rather rare. Escaped from cultivation in a few places.

820. *E. PEPLUS*, L.

Becoming a rather common garden weed, Buffalo.

821. *E. LATHYRIS*, L.

Rare. Silver Creek, Chat. Co., *Clinton*.

367. ACALYPHA, L.

822. *A. Virginica*, L.

ORDER 83. URTICACEÆ.

368. ULMUS, L.

823. *U. fulva*, Michx.

824. *U. Americana*, L.

825. *U. racemosa*, Thomas.

Very rare. A few specimens noticed in the northern portion of Buffalo. A large tree in Forest Lawn Cemetery, Buffalo.

369. MORUS.

826. *M. rubra*, L.A few trees in the woods near the Whirlpool, Niagara R.,
American side.827. *M. alba*, L.

Spontaneous in some places, Buffalo.

370. URTICA, Tourn.

828. *U. gracilis*, Ait.829. *U. dioica*, L.

Rare. Near Ft. Erie, Ont.

371. LAPORTEA, Gaudichaud.

830. *L. Canadensis*, Gaudichaud.

372. PILEA, Lindl.

831. *P. pumila*, Gray.

373. BOEHMERIA, Jacq.

832. *B. cylindrica*, Willd.

374. CANNABIS, Tourn.

833. *C. sativa*, L.

375. HUMULUS, L.

834. *H. lupulus*, L.

Rare. Borders of Buffalo R., near Sulphur Springs, Cheektowaga, Erie Co., and elsewhere.

ORDER 84. PLATANACEÆ.

376. PLATANUS, L.

835. *P. occidentalis*, L.

ORDER 85. JUGLANDACEÆ.

377. JUGLANS, L.

836. *J. cinerea*, L.837. *J. nigra*, L.

378. CARYA, Nutt.

838. *C. alba*, Nutt.839. *C. tomentosa*, Nutt.

Rare. Tonawanda, Clinton.

840. *C. porcina*, Nutt.841. *C. amara*, Nutt.

ORDER 86. CUPULIFERÆ.

379. QUERCUS, L.

842. *Q. alba*, L.843. *Q. obtusiloba*, Michx.844. *Q. macrocarpa*, Michx.845. *Q. bicolor*, Willd.

Rare. Grand Is., Niagara R.

846. *Q. Muhlenbergii*, Engelm. (*Q. Prinus*, L., var. *acuminata*, Michx.)Rare. Near Forest Lawn Cemetery, Buffalo. *Whitely*847. *Q. prinoides*, Willd. (*Q. Prinus*, L., var. *humilis*, Marsh.)Rare. The Plains, Buffalo. *Whitely*848. *Q. coccinea*, Wang.849. *Q. tinctoria*, Bart.850. *Q. rubra*, L.851. *Q. palustris*, Du Roi.

380. CASTANEA, Tourn.

852. *C. vesca*, L., var. **Americana**, Michx.

381. FAGUS, Tourn.

853. *F. ferruginea*, Ait.

382. CORYLUS, Tourn.

854. *C. rostrata*, Ait.

Rare. Forest Lawn Cemetery, Buffalo.

383. OSTRYA, Micheli.

855. *O. Virginica*, Willd.

384. CARPINUS, L.

856. *C. Americana*, Michx.

ORDER 87. MYRICACEÆ.

385. MYRICA, L.

857. *M. Gale*, L.

Rare. Hanover, Chat. Co.; Machias, Catt. Co.

858. *M. cerifera*, L.Rare. One or two specimens in the southeastern portion of Buffalo. Sheldon, Gen. Co., *Robert Hadfield*; Bergen Swamp, Gen. Co.; Caledonia, Liv. Co.

386. COMPTONIA, Solander.

859. *C. asplenifolia*, Ait.Rare. Near Portage, Liv. Co., *J. F. Cowell*; Jamestown, Chat. Co.; Olean, Catt. Co., *Clinton*.

ORDER 88. BETULACEÆ.

387. BETULA, Tourn.

860. *B. lenta*, L.861. *B. lutea*, Michx. f.862. *B. papyracea*, Ait.

Rather rare. Goat Is., Niagara Falls; Youngstown, Niagara Co.

863. *B. pumila*, L.

Very rare. Tonawanda Swamp, Dr. C. M. Booth.

388. ALNUS, Tourn.

864. *A. incana*, Willd.865. *A. serrulata*, Ait.

Very rare. A few specimens on Squaw Is., Niagara R.

ORDER 89. SALICACEÆ.

389. SALIX, Tourn.

866. *S. candida*, Willd.

Rare. Bergen, Gen. Co.; Caledonia, Liv. Co., Clinton.

867. *S. tristis*, Ait. ?868. *S. humilis*, Marshall.869. *S. discolor*, Muhl.870. *S. sericea*, Marshall.871. *S. petiolaris*, Smith.872. *S. purpurea*, L.873. *S. cordata*, Muhl.874. *S. livida*, Wahl., var. *occidentalis*, Gray.875. *S. lucida*, Muhl.876. *S. nigra*, Marsh.

Squaw Is., Niagara R., and elsewhere.

877. *S. FRAGILIS*, L.878. *S. ALBA*, L.879. *S. longifolia*, Muhl. ?

Rare. Pt. Abino, Ont.

880. *S. myrtilloides*, L.

Rare. Near Akron, Erie Co.

390. POPULUS, Tourn.

881. *P. ALBA*, L.

In cultivation, and spreading by the root.

882. *P. tremuloides*, Michx.

883. *P. grandidenta*, Michx.

884. *P. monolifera*, Ait.

Rather rare. Squaw Is., Niagara R.; near Ft. Erie, Ont.,
Clinton.

885. *P. angulata*, Ait. ?

Found by *J. A. Paine*, at Braddock's Bay, Lake Ontario, Monroe Co., and therefore probably within our territory.

886. *P. balsamifera*, L.

Rather rare. Squaw Is., Niagara R.

The variety *candicans*, Gray, is common in cultivation, but probably not indigenous here.

887. *P. dilatata*, L.

Common in cultivation and spreading by the root.

SUBCLASS II. GYMNOSPERMÆ.

ORDER 90. CONIFERÆ.

391. PINUS, Tourn.

888. *P. resinosa*, Ait.

Rare. Portage, Wyom. Co.

889. *P. Strobus*, L.

392. TSUGA, Endl.

890. *T. Canadensis*, Carriere. (*Abies Canadensis*, Michx.)

393. ABIES, Tourn.

891. *A. balsamea*, Marshall.

Rare. Collins, Erie Co.

394. PICEA, Link.

892. *P. nigra*, Link.Rare. Port Colborne, Ont.; Machias, Catt. Co., *Clinton*.

395. LARIX, Tourn.

893. *L. Americana*, Michx.

396. THUJA, Tourn.

894. *T. occidentalis*, L.

397. JUNIPERUS, L.

895. *J. communis*, L.

Rare. Ft. Erie, Ont.; Pt. Abino, Ont.,

896. *J. Virginiana*, L.

Rare. Pt. Abino, Ont.; Black Cr., Ont.; Goat Is. and the banks of Niagara R., below the Falls.

897. *J. Sabina*, L., var. *procumbens*, Pursh.

Rare. Bergen Swamp, Gen. Co.; Caledonia, Liv. Co.,

398. TAXUS, Tourn.

898. *T. baccata*, L., var. *Canadensis*, Gray.

CLASS II. ENDOGENÆ.

ORDER 91. ARACEÆ.

399. ARISÆMA, Martius.

899. *A. triphyllum*, Torr.900. *A. Dracontium*, Schott.

Rare. Scajauquady's Cr., east of Main street, Buffalo; Sulphur Spring, W. Seneca, Erie Co., *Clinton*; Portage, Liv. Co., *Clinton*; Salamanca, Catt. Co.

400. PELTANDRA, Raf.

901. *P. Virginica*, Raf.

Rather rare. Southeastern portion of Buffalo, along the lake shore; Niagara Falls, *Clinton*; Caledonia, Liv. Co., *Clinton*; Jamestown, Chat. Co. *Clinton*!

401. CALLA, L.

902. *C. palustris*, L.

Rather rare. Near Pine Hill, Cheektowaga, Erie Co.; Port Colborne, Ont.; Hanover, Chat. Co.; near Dayton, Catt. Co., and elsewhere.

402. SYMPLOCARPUS, Salisb.

903. *S. foetidus*, Salisb.

Formerly abundant in a ravine west of Delaware and south of Virginia street, Buffalo. The station now built over. Tonawanda, Niag. Co., and Tonawanda Is., *Clinton*; Machias, Catt. Co. One plant seen near the L. S. & M. S. R. R. bridge, where it crosses Buffalo R.

403. ACORUS, L.

904. *A. Calamus*, L.

ORDER 92. LEMNACEÆ.

404. LEMNA, L.

905. *L. trisulca*, L.906. *L. minor*, L.

405. SPIRODELA, Schleiden.

907. *S. polyrrhiza*, Schleiden.

406. WOLFFIA, Horckel, Schleiden.

908. *W. Columbiana*, Karsten. ?

Rare. Niagara R., near Grand Is., Prof. *D. S. Kellicott*. Possibly our plant may prove to be *W. Braziliensis*, Karsten.

ORDER 93. TYPHACEÆ.

407. TYPHA, Tourn.

909. *T. latifolia*, L.910. *T. angustifolia*, L.Rare. At Whirlpool, Niagara R., American side, *Clinton*.

408. SPARGANIUM, Tourn.

911. *S. eurycarpum*, Engetm.912. *S. simplex*, Hudson, var. *Nuttallii*, Gray.

Rather rare. Squaw Is., Niagara R.

ORDER 94. NAIADACEÆ.

409. NAIAS, L.

913. *N. flexilis*, Rostk.

410. ZANNICHELLIA, Micheli.

914. *Z. palustris*, L.In a pond near Ft. Porter, Buffalo; Niagara R., *Clinton*.

411. POTAMOGETON, Tourn.

915. *P. natans*, L.Rather rare. Niagara R., near Strawberry Is., *Clinton*.916. *P. hybridus*, Michx.Rare. Black Cr., Ont., *Clinton*.917. *P. gramineus*, L., var. *heterophyllus*, Fries.918. *P. lucens*, L.Not common. Niagara R.; Lime Lake. Machias, Catt. Co., *Clinton*.919. *P. prælongus*, Wulfen.920. *P. perfoliatus*, L.921. *P. compressus*, L.922. *P. Niagarensis*, Tuckerman.Rare. "Rapids above Niagara Falls, *Tuckerman*." (Gray's Manual.) Not detected by us.923. *P. pauciflorus*, Pursh.924. *P. pusillus*, L.925. *P. pectinatus*, L.926. *P. Robbinsii*, Oakes.

ORDER 95. ALISMACEÆ.

412. TRIGLOCHIN, L.

927. *T. palustre*, L.Rather rare. Lake shore, near Ft. Erie, Ont.; Strawberry Is., Niagara R., *Clinton*.

928. *T. maritimum*, L., var. *elatum*, Gray.

Rare. Bergen, Gen. Co., *J. A. Paine*.

413. SCHEUCHZERIA, L.

929. *S. palustris*, L.

Rare. Hanover, Chat. Co.

414. ALISMA, L.

930. *A. Plantago*, L., var. *Americanum*, Gray.

415. SAGITTARIA, L.

931. *S. variabilis*, Engelm.

932. *S. heterophylla*, Pursh, var. *rigida*, Gray.

ORDER 96. HYDROCHARIDACEÆ.

416. ANACHARIS, Richard.

933. *A. Canadensis*, Planchon.

417. VALLISNERIA, Micheli.

934. *V. spiralis*, L.

ORDER 97. ORCHIDACEÆ.

418. ORCHIS, L.

935. *O. spectabilis*, L.

Rare. W. Seneca, Erie Co.; Williamsville, Erie Co.; Hamburg, Erie Co. *B.*

419. HABENARIA, Willd., R. Br.

936. *H. virescens*, Spreng.

937. *H. viridis*, R. Br. var. *bracteata*, Reichenbach.

938. *H. hyperborea*, R. Br.

939. *H. dilatata*, Gray.

Rare. Hanover, Chat. Co.; Java, Wyom. Co., *Clinton*.

940. *H. Hookeri*, Torr.

Rather rare. Forest Lawn Cemetery, Buffalo; Tonawanda, Erie Co.

941. *H. orbiculata*, Torr.

Rather rare. Near Pine Hill, Cheektowaga, Erie Co.; W. Seneca, Erie Co., *J. F. Corwell*; Hanover, Chat. Co.

942. *H. blephariglottis*, Hook., var. *holopetala*, Gray.

Rare. Hanover, Chat. Co. *Alar*

943. *H. lacera*, R. Br.

Seemingly rare, but perhaps overlooked. Woods east of Delaware street and north of the Park, Buffalo.

944. *H. psycodes*, Gray.945. *H. peramœna*, Gray.

Rare. Collins, Erie Co.. *J. F. Corwell*; Cassadaga Lake, Chat. Co.

420. GOODYERA, R. Br.

946. *G. repens*, R. Br.

Rare. Southeastern portion of Buffalo; Hanover, Chat. Co.; Salamanca, Catt. Co.

947. *G. pubescens*, R. Br.

Rather rare. Near Pine Hill, Cheektowaga, Erie Co., and elsewhere.

421. SPIRANTHES, Richard.

948. *S. latifolia*, Torr.949. *S. Romanzoviana*, Chamisso. ?

Rare. Hanover, Chat. Co.

950. *S. cernua*, Richard.951. *S. gracilis*, Bigelow.

Rare. The Plains, Buffalo.

422. LISTERA, R. Br.

952. *L. cordata*, R. Br.

Rare. Spring Brook, Elma, Erie Co., *D. S. Kellicott*; Angola, Erie Co., *Clinton*; "Rock City," near Salamanca, Catt. Co.

423. ARETHUSA, Gronov.

953. *A. bulbosa*, L.

Rare. Hanover, Chat. Co.; Cassadaga Lake, Chat. Co., *Clinton*; Bergen Swamp, Gen. Co.; Machias, Catt. Co.

424. POGONIA, Juss.

954. *P. ophioglossoides*, Nutt.

Rather rare. Hanover, Chat. Co.; Machias, Catt. Co.

955. *P. pendula*, Lindl.

Very rare. W. Seneca, Erie Co., near Smoke's Cr. Detected only by *JuniuS S. Smith*.

425. CALOPOGON, R. Br.

956. *C. pulchellus*, R. Br.

Rather rare. Hanover, Chat. Co.; near Akron, Erie Co.; Machias, Catt. Co.

426. CALYPSO, Salisb.

957. *C. borealis*, Salisb.

Very rare. A single plant noticed in Bergen Swamp, by Dr.
C. M. Booth.

427. MICROSTYLIS, Nutt.

958. *M. monophyllos*, Lindl.

Rare. Machias, Catt. Co.; Bergen, Gen. Co., *J. A. Paine.*

428. LIPARIS, Richard.

959. *L. lilifolia*, Richard.

Very rare. Observed only in a wood near Ft. Erie, Ont.

960. *L. Læsellii*, Richard.

Rather rare. Strawberry Is., Niagara R., *Clinton*; Hamburg.
Erie Co.; Machias, Catt. Co.; Bergen Swamp, Gen. Co.,
J. A. Paine.

429. CORALLORRHIZA, Haller.

961. *C. innata*, R. Br.

Rare. Near Pine Hill, Cheektowaga, Erie Co.; Cassadaga
Lake, Chat. Co.

962. *C. multiflora*, Nutt.*C. Macræi*, Gray.

Attributed, by Gray's Manual, to Caledonia Springs, Ont., which
brings the plant nearly within our territory. Not detected by us.

430. APLECTRUM, Nutt.

963. *A. hyemale*, Nutt.

Rather rare. The Plains, Buffalo. *Clinton*; Smoke's Cr., W.
Seneca, Erie Co.; near Pine Hill, Cheektowaga, Erie Co.

431. CYPRIPEDIUM, L.

964. *C. candidum*, Muhl.

Very rare. Bergen Swamp, Gen. Co., *Clinton.*

965. *C. parviflorum*, Salisb.966. *C. pubescens*, Willd.967. *C. spectabile*, Swartz.

Rare. Formerly growing in the Sphagnous Swamp, excavated
to form "The Lake" in Buffalo Park. Alden, Erie Co.;
Bergen, Gen. Co.; Salamanca, Catt. Co.; Machias, Catt. Co.

968. *C. acaule*, Ait.

Rather rare. Hamburg, Erie Co.; Eighteen-mile Cr., Evans,
Erie Co.; near Port Colborne, Ont.; Cassadaga Lake, Chat.
Co. *below*

ORDER 98. IRIDACEÆ.

432. IRIS, L.

969. *I. versicolor*, L.

433. PARDANTHUS, Ker.

970. *P. CHINENSIS*, Ker.

Spontaneous in gardens, Buffalo.

434. SISYRINCHIUM, L.

971. *S. Bermudiana*, L.

ORDER 99. DIOSCOREACEÆ.

435. DIOSCOREA, Plumier.

972. *D. villosa*, L.

Rare. A single specimen observed in the woods east of Delaware street and north of the Park, Buffalo; but said to occur, in considerable quantities, along Niagara R., between Black Rock and Tonawanda, Erie Co., *J. F. Corwell*.

ORDER 100. SMILACEÆ.

436. SMILAX, Tourn.

973. *S. rotundifolia*, L.

Rare. W. Seneca, Erie Co.

974. *S. hispida*, Muhl.975. *S. herbacea*, L.

ORDER 101. LILIACEÆ.

437. TRILLIUM, L.

976. *T. grandiflorum*, Salisb.977. *T. erectum*, L.978. *var. album*, Pursh.979. *T. erythrocarpum*, Michx.

438. MEDEOLA, Gronov.

980. *M. Virginica*, L.

439. ZYGADENUS, Michx.

981. *Z. glaucus*, Nutt.Rare. Bergen Swamp, Gen. Co., *Clinton*.

440. VERATRUM, Tourin.

982. *V. viride*, Ait.

441. CHAMÆLIRIUM, Willd.

983. *C. luteum*, Gray.

Rare. The Plains, Buffalo; in woods between Foster Flat and Stanford Station, on the Canada Southern Railway, Ont.

442. TOFIELDIA, Hudson.

984. *T. glutinosa*, Willd.Rare. Bergen Swamp, Gen. Co., *Clinton*.

443. UVULARIA, L.

985. *U. grandiflora*, Smith.986. *U. perfoliata*, L.Rare. Eighteen-mile Cr., Evans, Erie Co.; Silver Lake, Wyom. Co., *Clinton*.

444. OAKESIA, Watson.

987. *O. sessilifolia*, Watson. (*Uvularia sessilifolia*, L.)

445. PROSARTES, Don.

988. *P. lanuginosa*, Don.

446. STREPTOPUS, Michx.

989. *S. roseus*, Michx.

447. CLINTONIA, Raf.

990. *C. borealis*, Raf.

Rather rare. Alden, Erie Co.; Machias, Catt. Co.; "Rock City," near Salamanca, Catt. Co.

991. *C. umbellata*, Torr.

Rare. Hanover, Chat. Co.; "Rock City," near Salamanca, Catt. Co.; Bemus Pt., Chatauqua Lake.

448. SMILACINA, Desf.

992. *S. racemosa*, Desf.993. *S. stellata*, Desf.994. *S. trifolia*, Desf.Rather rare. Black Cr. Swamp, Ont., *Clinton*; Bergen, Gen. Co.; Machias, Catt. Co. *Known*995. *S. bifolia*, Ker.

449. POLYGONATUM, Tourn.

996. *P. biflorum*, Ell.997. *P. giganteum*, Dietrich.

450. ASPARAGUS, L.

998. *A. officinalis*, L.

Frequently escaped; well established near Ft. Erie, Ont.

451. LILIUM, L.

999. *L. Philadelphicum*, L.1000. *L. Canadense*, L.1001. *L. superbum*, L.

452. ERYTHRONIUM, L.

1002. *E. Americanum*, Smith.1003. *E. albidum*, Nutt.

Rare. Forest Lawn Cemetery, Buffalo; W. Seneca, Erie Co.;
Alden, Erie Co., Dr. *Ernst Wende*.

453. ALLIUM, L.

1004. *A. tricoccum*, Ait.1005. *A. Canadense*, Kalm.

454. HEMEROCALLIS, L.

1006. *H. fulva*, L.

Occasionally found as a garden outcast. Buffalo and elsewhere.

ORDER 102. JUNCACEÆ.

455. LUZULA, DC.

1007. *L. pilosa*, Willd.1008. *L. campestris*, DC.

456. JUNCUS, L.

1009. *J. effusus*, L.1010. *J. Balticus*, Dethard.

Rather rare. Shore of Lake Erie, and Niagara R., Buffalo.

1011. *J. bufonius*, L.1012. *J. tenuis*, Willd.1013. *J. articulatus*, L.1014. var. *pelocarpus*, Gray. (*J. pelocarpus*, E. Meyer.)

Avon, Liv. Co., *Sartwell*.

1015. *J. acuminatus*, Michx.1016. var. *debilis*, Engelm.1017. var. *legitimus*, Engelm.1018. *J. nodosus*, L.1019. var. *megacephalus*, Torr.1020. *J. Canadensis*, J. Gay.1021. var. *coarctatus*, Engelm.

ORDER 103. PONTEDERIACEÆ.

457. PONTEDERIA, L.

1022. *P. cordata*, L.

458. SCHOLLERA, Schreber.

1023. *S. graminea*, Willd.

ORDER 104. ERIOCAULONACEÆ.

459. ERIOCAULON, L.

1024. *E. septangulare*, Withering.

Rare. Chataqua Lake, near Mayville.

ORDER 105. CYPERACEÆ.

460. CYPERUS, L.

1025. *C. diandrus*, Torr.

1026. var. *castaneus*, Torr.

1027. *C. phymatodes*, Muhl.

With us sometimes, if not always, *diandrous*.

1028. *C. strigosus*, L.

1029. *C. Michauxianus*, Schultes.

1030. *C. Schweinitzii*, Torr.

1031. *C. filiculmis*, Vahl.

461. DULICHIMUM, Richard.

1032. *D. spathaceum*, Pers.

462. ELEOCHARIS, R. Br.

1033. *E. obtusa*, Schultes.

1034. *E. palustris*, R. Br.

1035. *E. rostellata*, Torr.

Bergen Swamp, Gen. Co., *Clinton*.

1036. *E. tenuis*, Schultes.

1037. *E. acicularis*, R. Br.

463. SCIRPUS, L.

1038. *S. pauciflorus*, L.

Rare. Portage, Gen. Co., on wet rocks near the Falls, *Clinton*;

Bergen Swamp, Gen. Co., *J. A. Paine*.

1039. *S. cæspitosus*, L.

Rare. Bergen Swamp, Gen. Co., *Clinton*.

1040. *S. Clintonii*, Gray.

Rare. Northeastern portion of Buffalo.

1041. *S. planifolius*, Muhl.

1042. *S. pungens*, Vahl.

1043. *S. Torreyi*, Olney.

Rather common on Strawberry Is., Niagara R., *Clinton*; Bergen Swamp, Gen. Co., *J. A. Paine*.

1044. *S. validus*, Vahl.

1045. *S. fluviatilis*, Gray.

Rare. Southeastern portion of Buffalo, *Clinton*.

1046. *S. sylvaticus*, L.

1047. *S. atrovirens*, Muhl.

1048. *S. lineatus*, Michx.

1049. *S. Eriophorum*, Michx.

464. ERIOPHORUM, L.

1050. *E. vaginatum*, L.

Rare. Java Lake, Wyom. Co., *Clinton*.

1051. *E. Virginicum*, L.

1052. *E. polystachyon*, L.

var. *angustifolium*, Gray.

Rare. Portage, Wyom. Co., *Clinton*.

1053. *E. gracile*, Koch.

Rare. Hanover, Chat. Co.; Machias, Catt. Co.

465. RHYNOSPORA, Vahl.

1054. *R. alba*, Vahl.

Rather rare. Hanover, Chat. Co. *Clinton*

1055. *R. capillacea*, Torr.

Rare. Wind-mill Pt., Ont.; Bergen Swamp, Gen. Co., *J. A. Paine*.

466. CLADIUM, P. Browne.

1056. *C. mariscoides*, Torr.

Rare. Near Port Colborne, Ont.; Bergen Swamp, Gen. Co., *Clinton*.

467. SCLERIA, L.

1057. *S. verticillata*, Muhl.

Rare. Bergen Swamp, Gen. Co., *Clinton*.

468. CAREX.

1058. *C. gynocrates*, Wormskiöld.

Rare. Bergen Swamp, Gen. Co., *Clinton*.

1059. *C. pauciflora*, Lightfoot.

Rare. Machias, Catt. Co., *Clinton*; Cassadaga Lake, Chat. Co.

1060. *C. polytrichoides*, Muhl.

1061. *C. bromoides*, Schk.

1062. *C. siccata*, Dew.

Rare. Bergen Swamp, Gen. Co., *Clinton*.

1063. *C. disticha*, Huds.

1064. *C. teretiuscula*, Good, var. **major.**, Koch.
Rare. Bergen Swamp, Gen. Co., *Clinton*.
1065. *C. vulpinoidea*, Michx.
1066. *C. stipata*, Muhl.
1067. *C. sparganioides*, Muhl.
1068. *C. Muhlenbergii*, Schk.
1069. *C. rosea*, Schk.
1070. *C. retroflexa*, Muhl.
1071. *C. tenella*, Schk.
Rather rare. Buffalo; Bergen Swamp, Gen. Co., *Clinton*.
1072. *C. trisperma*, Dew.
Rather rare. Wheelbarrow Pt., Buffalo R., *Clinton*.
1073. *C. tenuiflora*, Wahl.
Rare. Near Akron. Erie Co.
1074. *C. canescens*, L.
1075. *C. sterilis*, Willd.
Rare. Bergen Swamp, Gen. Co., *Clinton*.
1076. *C. stellulata*, L.
1077. *C. scoparia*, Schk.
1078. *C. cristata*, Schw.
1079. *C. straminea*, Schk.
1080. *C. aquatilis*, Wahl. ?
1081. *C. torta*, Boott.
1082. *C. stricta*, Lam.
1083. *C. crinita*, Lam.
1084. *C. limosa*, L.
Rather rare. Near Akron, Erie Co.
1085. *C. Buxbaumii*, Wahl.
Rare. Bergen Swamp, Gen. Co., *J. A. Paine*.
1086. *C. aurea*, Nutt.
Rather rare. Wind-mill Pt., Ont., and elsewhere along the shore of Lake Erie.
1087. *C. vaginita*, Tausch.
Rare. Bergen Swamp. Gen. Co., *Clinton*.
1088. *C. Crawei*, Dew.
Rare. Wind-mill Pt., Ont., *Clinton* ; Bergen Swamp, Gen. Co., *J. A. Paine*.
1089. *C. granularis*, Muhl.
1090. *C. pallescens*, L.
1091. *C. grisea*, Wahl.
1092. *C. virescens*, Muhl.
1093. *C. triceps*, Michx.

1094. *C. plantaginea*, Lam.
 1095. *C. platyphylla*, Carey.
 1096. *C. retrocurva*, Dew.
 1097. *C. digitalis*, Willd.
 1098. *C. laxiflora*, Lam.
 1099. var. *plantaginea*, Boott.
 1100. *C. Hitchcockiana*, Dew.
 1101. *C. eburnea*, Boott.
 1102. *C. pedunculata*, Muhl.
 Rare. Near Sulphur Springs, Cheektowaga, Erie Co.
 1103. *C. Novæ-Angliæ*, Schw.
 1104. *C. Emmonsii*, Dew. ?
 1105. *C. Pennsylvanica*, Lam.
 1106. *C. pubescens*, Muhl.
 1107. *C. miliacea*, Muhl.
 1108. *C. scabrata*, Schw.
 Rare. Portage, Wyom. Co., *Clinton*.
 1109. *C. arctata*, Boott.
 1110. *C. debilis*, Michx.
 1111. *C. flava*, L.
 Rather rare. Near Batavia, *Clinton*.
 1112. *C. Oederi*, Ehrh.
 Rather rare. Wind-mill Pt., Ont.; Niagara Falls.
 1113. *C. filiformis*, L.
 Rare. Near Batavia, Gen. Co., *Clinton*.
 1114. *C. lanuginosa*, Michx.
 1115. *C. riparia*, Curtis.
 1116. *C. trichocarpa*, Muhl.
 1117. *C. comosa*, Boott.
 1118. *C. Pseudo-Cyperus*, L.
 1119. *C. hystericina*, Willd.
 Rare. Bergen Swamp, Gen. Co., *Clinton*.
 1120. *C. tentaculata*, Muhl.
 Rare. Bergen Swamp, Gen. Co., *Clinton*.
 1121. *C. intumescens*, Rudge.
 1122. *C. Grayii*, Carey.
 Sheldon, Wyom. Co., *Clinton*.
 1123. *C. lupulina*, Muhl.
 1124. *C. lupuliformis*, Sartwell.
 1125. *C. folliculata*, L.
 1126. *C. retrosa*, Schw.
 1127. *C. utriculata*, Boott.
 1128. *C. Tuckermani*, Boott.
 1129. *C. oligosperma*, Michx.

ORDER 106. GRAMINEÆ.

469. LEERSIA, Solander.
1130. *L. Virginica*, Willd.
1131. *L. oryzoides*, Swartz.
470. ZIZANIA, Gronov.
1132. *L. aquatica*, L.
471. ALOPECURUS, L.
1133. *A. GENICULATUS*, L.
1134. *A. aristulatus*, Michx.
- Rather rare. Near Port Colborne, Ont.
472. PHLEUM, L.
1135. *P. PRATENSE*, L.
473. VILFA, Adans., Beauv.
1136. *V. vaginæflora*, Torr.
474. SPOROBOLUS, R. Br.
1137. *S. cryptandrus*, Gray.
475. AGROSTIS, L.
1138. *A. perennans*, Tuckerman.
- Rather rare. Alabama Swamp, Gen. Co., *Clinton*.
1139. *A. scabra*, Willd.
1140. *A. vulgaris*, With.
1141. *A. alba*, L.
476. CINNA, L.
1142. *C. arundinacea*, L.
477. MUHLENBERGIA, Schreber.
1143. *M. glomerata*, Trin.
- Rare. Niagara Falls, *Clinton*.
1144. *M. Mexicana*, Trin.
- Rare. Niagara Falls, *Clinton*.
1145. *M. sylvatica*, Torr. and Gray.
1146. *M. Willdenovii*, Trin.
1147. *M. diffusa*, Schreber.
- Whirlpool woods, Niagara R., Ont., *Clinton*; Springville, Erie Co., *Clinton*.
478. BRACHYELYTRUM, Beauv.
1148. *B. aristatum*, Beauv.
479. CALAMAGROSTIS, Adans.
1149. *C. Canadensis*, Beauv.

1150. *C. arenaria*, Roth.

Rare. Rose's Pt., Ont., *Clinton*; Pt. Abino, Ont.

480. ORYZOPSIS, Michx.

1151. *O. melanocarpa*, Muhl.

1152. *O. asperifolia*, Michx.

481. SPARTINA, Schreber.

1153. *S. cynosuriodes*, Willd.

482. TRIPLASIS, Beauv.

1154. *T. purpurea*, Beauv. (*Tricuspis purpurea*, Gray.)

Found only along the shore of Lake Erie.

483. DACTYLIS, L.

1155. *D. GLOMERATA*, L.

484. CYNOSURUS, L.

1156. *C. CRISTATUS*, L.

Introduced by means of "Lawn Grass Seed." Buffalo. Precarious.

485. EATONIA, Raf.

1157. *E. obtusata*, Gray.

1158. *E. Pennsylvanica*, Gray.

486. MELICA, L.

1159. *M. mutica*, Walt. ?

Perhaps this grass has been confounded by us with another.

487. GLYCERIA, R. Br., Trin.

1160. *G. Canadensis*, Trin.

1161. *G. elongata*, Trin.

1162. *G. nervata*, Trin.

1163. *G. pallida*, Trin.

1164. *G. aquatica*, Smith.

1165. *G. fluitans*, R. Br.

488. POA, L.

1166. *P. annua*, L.

1167. *P. compressa*, L.

1168. *P. serotina*, Ehrh.

1169. *P. pratensis*, L.

1170. *P. TRIVIALIS*, L.

1171. *P. sylvestris*, Gray.

1172. *P. alsodes*, Gray.

489. ERAGROSTIS, Beauv.

1173. *E. POÆOIDES*, Beauv., var. *megastachya*, Gray.

Rare. Near Ft. Erie, Ont.

490. FESTUCA, L.

1174. *F. tenella*, Willd.Rare. Sand-dunes at Evans, Erie Co., *Clinton*.1175. *F. ovina*, L., var. *duriuscula*, Gray.1176. *F. ELATIOR*, L.1177. *F. nutans*, Willd.

491. BROMUS, L.

1178. *B. SECALINUS*, L.1179. *B. RACEMOSUS*, L.1180. *B. MOLLIS*, L.Rare. In a lawn, Buffalo, *Clinton*. Hardly established.1181. *B. Kalmii*, Gray.1182. *B. ciliatus*, L.1183. var. *purgans*, Gray.

492. PHRAGMITES, Trin.

1184. *P. communis*, Trin.

Squaw Is., and other islands of Niagara R.

493. LOLIUM, L.

1185. *L. PERENNE*, L.

Rare. In lawns, Buffalo.

494. TRITICUM, L.

1186. *T. repens*, L.1187. *T. caninum*, L.

495. HORDEUM, L.

1188. *H. jubatum*, L.Introduced. Buffalo. Hardly established. Silver Creek, Chat.
Co., *E. S. Burgess*.

496. ELYMUS, L.

1189. *E. Virginicus*, L.1190. *E. Canadensis*, L.1191. *E. striatus*, Willd.

497. GYMNOSTICHUM, Schreb.

1192. *G. Hystrix*, Schreb.

498. DANTHONIA, DC.

1193. *D. spicata*, Beauv.

499. AVENA, L.

1194. *A. striata*, Michx.

500. AIRA, L.

1195. *A. flexuosa*, L.1196. *A. cæspitosa*, L.Rare. Bergen Swamp, Gen. Co., *Paine*.

501. ARRHENATHERUM, Beauv.

1197. *A. AVENACEUM*, Beauv.

Rare. Port Abino, Ont.

502. PHALARIS, L.

1198. *P. CANARIENSIS*, L.

Accidental and precarious, Buffalo.

1199. *P. arundinacea*, L.

503. MILIUM, L.

1200. *M. effusum*, L.

504. PANICUM.

1201. *P. GLABRUM*, Gaudin.1202. *P. SANGUINALE*, L.1203. *P. capillare*, L.1204. *P. virgatum*, L.1205. *P. latifolium*, L.1206. *P. clandestinum*, L.1207. *P. dichotomum*, L.1208. *P. depauperatum*, Muhl.1209. *P. Xalapense*, ?Rare. Northeastern portion of Buffalo, *Clinton*. Probably the remnant of cultivation.1210. *P. CRUS-GALLI*, L.1211. var. *HISPIDUM*, Gray.

505. SETARIA, Beauv.

1212. *S. GLAUCA*, Beauv.1213. *S. VIRIDIS*, Beauv.1214. *S. ITALICA*, Kunth.

506. ANDROPOGON, L.

1215. *A. furcatus*, Muhl.1216. *A. scoparius*, Michx.

507. SORGHUM, Pers.

1217. *S. nutans*, Gray.

SERIES II. CRYPTOGRAMÆ.

CLASS III. ACROGENÆ.

ORDER 107. EQUISETACEÆ.

508. EQUISETUM, L.

1218. *E. arvense*, L.

1219. *E. sylvaticum*, L.

Rare. Near Sulphur Spring, Cheektowaga, Erie Co.; near Pine Hill, Cheektowaga, Erie Co.

1220. *E. palustre*, L.

Squaw Is., Niagara River.

1221. *E. limosum*, L.

Southeastern portion of Buffalo.

1222. *E. hyemale*, L.

1223. *E. variegatum*, Schleicher.

Rare. Niagara Falls.

1224. *E. scirpoides*, Michx.

Rare. Whirlpool, Niagara River, Ont.

ORDER 108. OPHIOGLOSSACEÆ.

509. BOTRYCHIUM, Swartz.

1225. *B. lanceolatum*, Angström.

Rare. Cassadaga Lake, Chat. Co.

1226. *B. Virginianum*, Swartz.

1227. *B. ternatum*, Swartz, var. *lunarioides*, D. C. Eaton.

1228. var. *dissectum*, D. C. Eaton.

510. OPHIOGLOSSUM, L.

1229. *O. vulgatum*, L.

Rare. The Plains, Buffalo; near Smoke's Creek, West Seneca, Erie Co., *Clinton*; head of Grand Is., Niagara River, *Clinton*; Henrietta, Gen. Co., *J. A. Paine*.

ORDER 109. FILICES.

511. POLYPODIUM, L.

1230. *P. vulgare*, L.

512. ADIANTUM, L.

- 1231.
- A. pedatum*
- , L.

513. PTERIS, L.

- 1232.
- P. aquilina*
- , L.

Attaining at Machias, Catt. Co., the height of eight feet and upwards.

514. PELLÆA, Link.

- 1233.
- P. atropurpurea*
- , Link.

Rare. Niagara River, at and below the Falls.

515. WOODWARDIA, Smith.

- 1234.
- W. Virginica*
- , Smith.

Rare. Near "Counterfeiters' Ledge," Akron, Erie Co.; Casadaga, Chaut. Co.

516. ASPLENIUM, L.

- 1235.
- A. Trichomanes*
- , L.

- 1236.
- A. ebeneum*
- , Ait.

Rare. Pt. Abino, Ont.; Lewiston, Niag. Co.

- 1237.
- A. angustifolium*
- , Michx.

Rather rare. Machias, Catt. Co.; Clear Cr., Catt. Co., and elsewhere.

- 1238.
- A. thelypteroides*
- , Michx.

- 1239.
- A. Filix-fœmina*
- , Bernh.

517. CAMPTOSORUS, Link.

- 1240.
- C. rhizophyllus*
- , Link.

Rare. Whirlpool woods and Foster's Flat, Niagara River, Canadian side.

518. PHEGopteris, Fée.

- 1241.
- P. polypodioides*
- , Fée.

Rare. N. Collins, Erie Co.

- 1242.
- P. hexagonoptera*
- , Fée.

Rather rare. W. Seneca, Erie Co., and elsewhere.

- 1243.
- P. Dryopteris*
- , Fée.

Rare. Alden, Erie Co.; Devil's Hole, Niagara River; Machias, Catt. Co.

519. ASPIDIUM, Swartz.

- 1244.
- A. Thelypteris*
- , Swartz.

- 1245.
- A. Noveboracense*
- , Swartz.

1246. *A. spinulosum*, Swartz.
 1247. var. *intermedium*, Eaton.
 1248. *A. cristatum*, Swartz.
 1249. var. *Clintonianum*, Eaton.
 Detected by Judge Clinton. Locality unrecorded.

1250. *A. Goldianum*, Hook.
 1251. *A. marginale*, Swartz.
 1252. *A. acrostichoides*, Swartz.
 1253. var. *incisum*, Eaton.
 Salamanca, Catt. Co., *Clinton*.

520. CYSTOPTERIS, Bernh.

1254. *C. bulbifera*, Bernh.
 1255. *C. fragilis*, Bernh.
 Smoke's Creek, W. Seneca, Erie Co.; near Youngstown, Niag.
 Co.; elsewhere not common.

521. STRUTHIOPTERIS, Willd.

1256. *S. Germanica*, Willd.

522. ONOCLEA, L.

1257. *O. sensibilis*, L.

523. DICKSONIA, L'Her.

1258. *D. pilosiuscula*, Willd. (*D. punctilobula*, Kunze.)
 Southern towns of Erie Co.

524. OSMUNDA, L.

1259. *O. regalis*, L.
 1260. *O. Claytoniana*, L.
 1261. *O. cinnamomea*, L.

ORDER 110. LYCOPODIACEÆ.

525. LYCOPODIUM, L.

1262. *L. lucidulum*, Michx.
 1263. *L. annotinum*, L.
 1264. *L. dendroideum*, Michx.
 1265. *L. clavatum*, L.
 1266. *L. complanatum*, L.

ORDER III. SELAGINELLACEÆ.

526. SELAGINELLA, Beauv.

1267. *S. rupestris*, Spring.

Rare. Cliffs of Niagara River, near the Devil's Hole.

1268. *S. Apus*, Spring.

527. ISOETES, L.

1269. *I. echinospora*, Durieu, var. *Braunii*, Engelm.

ORDER II2. SALVINIACEÆ.

528. AZOLLA, Lam.

1270. *A. Caroliniana*, Willd.Rare. Burnt Ship Bay, Grand Is., Niagara River, *Clinton*;
Niagara Falls, Dr. *J. W. Robbins*.

CLASS IV. ANOGENÆ.

ORDER 113. MUSCI.

529. SPHAGNUM, Ehrh.

1271. *S. cymbifolium*, Ehrh.1272. *S. squarrosum*, Pers.1273. *S. cuspidatum*, Ehrh.

Hamburgh, Erie Co.

1274. *S. acutifolium*, Ehrh.

530. PHASCUM, L.

1275. *P. muticum*, Schreb.

531. GYMNOSTOMUM, Hedw.

1276. *G. curvirostrum*, Hedw.

Niagara Falls, near the American staircase.

532 WEISIA, Hedw.

1277. *W. viridula*, Brid.On the edge of a stone quarry east of Forest Lawn Cemetery,
Buffalo.

533. SELIGERIA, Br. and Sch.

1278. *S. recurvata*, Br. and Sch.

Devil's Hole, Niagara River; Caledonia, Liv. Co.

1279. *S. calcarea*, Br. and Sch.

Devil's Hole, Niagara Co.

534. CAMPYLOPUS, Brid.

1280. *C. viridis*, Sulliv. and Lesq.

535. DICRANUM, Hedw.

1281. *D. virens*, Hedw.1282. *D. varium*, Hedw.

Forest Lawn Cemetery, Buffalo; Portage, Gen. Co.

1283. *D. heteromallum*, Hedw.1284. *D. montanum*, Hedw."Goat Is., Niagara Falls, Lesquereux," *Sullivant*.1285. *D. flagellare*, Hedw.1286. *D. interruptum*, Br. and Sch.

1287. *D. scoparium*, Hedw.

Eighteen Mile Creek, Evans, Erie Co.; Corfu, Gen. Co.

1288. *D. undulatum*, Turn.

1289. *D. palustre*, Brid.

Rare. Whirlpool, Niagara River, American side.

536. *LEUCOBRYUM*, Hampe.

1290. *L. glaucum*, L.

537. *FISSIDENS*, Hedw.

1291. *F. minutulus*, Sulliv.

1292. *F. bryoides*, Hedw.

In a green-house, Buffalo.

1293. *F. taxifolius*, Hedw.

Niagara Falls, *Lesquereux*.

1294. *F. adiantoides*, Hedw.

1295. *F. grandifrons*, Brid.

Niagara Falls, by the American staircase; Goat Is., at the Cascade; Caledonia Creek, Liv. Co., where it grows submerged.

538. *CONOMITRIUM*, Mont.

1296. *C. Julianum*, Mont.

Smoke's Creek, W. Seneca, Erie Co.

539. *POTTIA*, Ehrh.

1297. *P. truncata*, Br. and Sch.

Near Forest Lawn Cemetery, Buffalo.

540. *DESMATODON*, Brid.

1298. *D. arenaceus*, Sulliv. and Lesq.

Rare. Devil's Hole, Niagara River; Foster's Flat, Niagara River; Portage, Wyom. Co.

541. *BARBULA*, Hedw.

1299. *B. unguiculata*, Hedw.

Near Forest Lawn Cemetery, Buffalo; Whirlpool, Niagara River; Portage, Wyom. Co.

1300. *B. caespitosa*, Schwægr.

1301. *B. tortuosa*, Web. and Mohr.

Niagara Falls.

1302. *B. mucronifolia*, Schwægr.

Devil's Hole, Niagara River; Portage, Wyom. Co.

542. TRICHOSTOMUM, Br. and Sch.

1303. *T. tortile*, Schrad.1304. *T. pallidum*, Hedw.

Near the "Forks," Cheektowaga, Erie Co.

543. DIDYMODON, Br. and Sch.

1305. *D. rubellus*, Roth.

Goat Is., Niagara River.

1306. *D. luridus*, Hornsch.

Rare. Niagara Falls, on a dry rock near the shore, from one-eighth to one-fourth of a mile below the American staircase.

"This fine species was found by Drummond in 1818 at
 "Niagara Falls; but had not been detected since that time,
 "until 1865,* when it was re-discovered as shown above."

C. H. Peck, in Reg. Rep., 1866.

544. CERATODON, Brid.

1307. *C. purpureus*, Brid.

Forest Lawn Cemetery, Buffalo.

545. TETRAPHIS, Hedw.

1308. *T. pellucida*, Hedw.

Pine Hill, Cheektowaga, Erie Co.

546. ENCALYPTA, Schrad.

1309. *E. streptocarpa*, Hedw.

"Counterfeiter's Ledge," Akron, Erie Co.

547. ORTHOTRICHUM, Hedw.

1310. *O. cupulatum*, Hoff.

On beech trees, Rose's Point, Ont.; "Niagara Falls, Drum-
 mond," *Sullivan*.

1311. *O. anomalum*, Hedw.

Rare. Forest Lawn Cemetery, Buffalo; rocks and trees,
 Niagara Falls.

1312. *O. strangulatum*, Beauv.1313. *O. Ohioense*, Sull. and Lesq.1314. *O. affine*, Schrad.1315. *O. leiocarpum*, Br. and Sch.1316. *O. Hutchinsiae*, Hook and Tayl.1317. *O. Ludwigii*, Schwægr.1318. *O. crispum*, Hedw.

Hall's Station, Niagara Co.

1319. *O. crispulum*, Hornsch.

Salamanca, Catt. Co.

548. DRUMMONDIA, Hook.

1320. *D. clavellata*, Hook.

549. SCHISTIDIUM, Schp.

1321. *S. apocarpum*, Hedw.

1322. *S. confertum*, Funk.

550. HEDWIGIA, Ehrh.

1323. *H. ciliata*, Ehrh.

551. APHANORHEGMA, Sulliv.

1324. *A. serrata*, Sulliv.

552. PHYSCOMITRIUM, Brid.

1325. *P. pyriforme*, Brid.

553. FUNARIA, Schreb.

1326. *F. flavicans*, Michx.

Rare. Buffalo.

1327. *F. hygrometrica*, Hedw.

1328. var. *calvescens*, Br. and Sch.

Wet, springy places, Buffalo.

554. BARTRAMIA, Hedw.

1329. *B. Muhlenbergii*, Schwægr.

Niagara Falls.

1330. *B. pomiformis*, Hedw.

1331. *B. Cederi*, Swartz.

Akron, Erie Co.; Devil's Hole, Niagara River.

555. BRYUM, Dill.

1332. *B. acuminatum*, Hoppe and Hornsch.

Very rare. "Rock City," near Salamanca, Catt. Co.

1333. *B. nutans*, Schreb.

1334. *B. Wahlenbergii*, Schwægr.

1335. *B. pyriforme*, L.

1336. *B. intermedium*, Brid.

Lockport, Niagara Co.

1337. *B. bimum*, Schreb.

Niagara Falls.

1338. *B. roseum*, Schreb.

1339. *B. capillare*, Hedw.

Buffalo.

1340. *B. cyclophyllum*, Br. and Sch.

Caledonia Creek, near Seth Green's, Liv. Co.

1341. *B. turbinatum*, Hedw.

Very rare. "Wet rocks, below Niagara Falls," *Sullivant*.

1342. *B. cæspitium*, L.

1343. *B. atropurpureum*, Web. and Mohr.

Very rare. Forest Lawn Cemetery, Buffalo.

556. MNIMUM, Br. and Sch.

1344. *M. serratum*, Brid.

Not common. Smoke's Creek, W. Seneca, Erie Co.

1345. *M. lycopodioides*, Hook.

1346. *M. cuspidatum*, Hedw.

1347. *M. affine*, Bland.

1348. *M. spinulosum*, Br. and Sch.

1349. *M. rostratum*, Schwægr.

Devil's Hole, Niagara River.

1350. *M. punctatum*, Hedw.

557. AULACOMNION, Schwægr.

1351. *A. palustre*, Schwægr.

558. TIMMIA, Hedw.

1352. *T. megapolitana*, Hedw.

Near Scajauquady's Creek, Buffalo; Pine Hill, Cheektowaga,
Erie Co.

559. ATRICHUM, Beauv.

1353. *A. undulatum*, Beauv.

Smoke's Creek, W. Seneca, Erie Co.

1354. *A. angustatum*, Beauv.

Smoke's Creek, W. Seneca, Erie Co.

560. POGONATUM, Beauv.

1355. *P. brevicaule*, Brid.

Boston, Erie Co.; Salamanca, Catt. Co.

561. POLYTRICHUM, L.

1356. *P. formosum*, L.

1357. *P. juniperinum*, Hedw.

1358. *P. commune*, L.

562. FONTINALIS, Dill. .

1359. *F. antipyretica*, L., var. *gigantea*, Sulliv.
Hall's Station, Niagara Co. ; Salamanca, Catt. Co.

1360. *F. Lescurii*, Sulliv. ?
Caledonia, Liv. Co.

563. DICHELYMA, Myrin.

1361. *D. capillaceum*, Dill.
Angola, Erie Co.

564. LEUCODON, Schwægr.

1362. *L. julaceus*, Hedw.

565. LEPTODON, Mohr.

1363. *L. trichomitron*, Mohr.

566. ANOMODON, Hook and Tayl.

1364. *A. viticulosus*, Hook and Tayl.
Niagara Falls ; Whirlpool, Niagara River, Canadian side.

1365. *A. apiculatus*, Br. and Sch.
Akron, Erie Co.

1366. *A. obtusifolius*, Br. and Sch.
1367. *A. attenuatus*, Hartm.

567. LESKEA, Hedw.

1368. *L. polycarpa*, Ehrh.
1369. *L. nervosa*, Schwægr.
Niagara Falls.

1370. *L. rostrata*, Hedw.
Forest Lawn Cemetery, Buffalo.

568. THELIA, Sulliv.

1371. *T. hirtella*, Sulliv.
"The Plains," Buffalo.

1372. *T. asprella*, Sulliv.

569. PYLAISÆA, Schp.

1373. *P. intricata*, Hedw.
1374. *P. velutina*, Schp.

570. HOMALOTHECIUM, Schp.

1375. *H. subcapillatum*, Schp.
Devil's Hole, Niagara River.

571. PLATYGYRIUM, Schp.

1376. *P. repens*, Brid.

572. CYLINDROTHECIUM, Schp.

1377. *C. cladorrhizans*, Hedw.1378. *C. seductrix*, Hedw.

573. NECKERA, Hedw.

1379. *N. pennata*, Hedw.

574. CLIMACIUM, Web. and Mohr.

1380. *C. Americanum*, Brid.1381. *C. dendroides*, Web. and Mohr.

575. HYPNUM, L.

1382. *H. tamariscinum*, Hedw.1383. *H. delicatulum*, C. Mull.1384. *H. minutulum*, Hedw.1385. *H. pygmæum*, Bryol. Europ.

Rare. Foster's Flat, Niagara River, Ont.

1386. *H. gracile*, Bryol. Europ.1387. *H. abietinum*, L.

Niagara Falls and the Whirlpool.

1388. *H. triquetrum*, L.1389. *B. Blandowii*, Web. and Mohr.

Rare. Caledonia, Liv. Co.

1390. *H. brevirostre*, Ehrh.1391. *H. splendens*, Hedw.1392. *H. Alleghaniense*, C. Mull.

Rare. Devil's Hole, Niagara River.

1393. *H. hians*, Hedw.1394. *H. Sullivantii*, Spruce.1395. *H. strigosum*, Hoffm.1396. *H. diversifolium*, Bryol. Europ.

Rare. Near Forest Lawn Cemetery, Buffalo.

1397. *H. serrulatum*, Hedw.1398. *H. cylindricarpum*, C. Mull.1399. *H. recurvans*, Schwægr.1400. *H. cuspidatum*, L.1401. *H. Schreberi*, Willd.1402. *H. cordifolium*, Hedw.1403. *H. giganteum*, Schp.

Caledonia Creek, Liv. Co.

1404. *H. uncinatum*, Hedw.
 1405. *H. revolvens*, Swartz.
 Bergen Swamp, Gen. Co.; Caledonia, Liv. Co.
 1406. *H. aduncum*, Hedw.; var. *giganteum*, Bryol. Europ.
 Big Bay, Strawberry Is., Niagara River.
 1407. var. *gracilescens*.
 Wet, marshy grounds, Buffalo.
 1408. *H. filicinum*, L.
 1409. *H. Crista-Castrensis*, L.
 1410. *H. molluscum*, Hedw.
 1411. *H. imponens*, Hedw.
 1412. *H. reptile*, Michx.
 1413. *H. curvifolium*, Hedw.
 1414. *H. Haldanianum*, Grev.
 1415. *H. rugosum*, Ehrh.
 Rare. Niagara Falls; Whirlpool woods.
 1416. *H. nitens*, Schreb.
 1417. *H. lætum*, Brid.
 1418. *H. acuminatum*, Beauv.
 Rare. Portage, Wyom. Co.
 1419. *H. rutabulum*, L.
 Forest Lawn Cemetery, Buffalo.
 1420. *H. plumosum*, L.
 1421. *H. rivulare*, Brch.
 Rare. Devil's Hole, Niagara River.
 1422. *H. stellatum*, Schreb.
 Bergen Swamp, Gen. Co.
 1423. *H. polymorphum*, Brch.
 1424. *H. subtile*, Hoffm.
 Whirlpool woods.
 1425. *H. minutissimum*, Sulliv. and Lesq.
 "Counterfeiter's Ledge," Akron, Erie Co.
 1426. *H. Sprucei*, Brch.
 Goat Is., Niagara Falls, *James*.
 1427. *H. adnatum*, Hedw.
 1428. *H. serpens*, Hedw.
 1429. *H. radicale*, Brid.
 1430. *H. orthocladon*, Beauv.
 1431. *H. noterophilum*, Sulliv. and Lesq.
 Caledonia, Liv. Co.

1432. *H. riparium*, Hedw.
Smoke's Creek, W. Seneca, Erie Co.

1433. *H. denticulatum*, L.

1434. *H. Muhlenbeckii*, Bryol. Europ.

1435. *H. cariosum*, Sulliv.

ORDER 114. HEPATICÆ.

576. RICCIA, Mich.

1436. *R. natans*, L.

Burnt Ship Bay, Grand Is., Niagara River.

1437. *R. fluitans*, L.

With *R. fluitans*.

1438. *R. sorocarpa*, Bisch.

Forest Lawn Cemetery, Buffalo.

577. LUNULARIA, Mich.

1439. *L. vulgaris*, Mich.

Conservatories, Buffalo.

578. MARCHANTIA, L.

1440. *M. polymorpha*, L.

579. PREISSIA, Nees.

1441. *P. commutata*, Nees.

Niagara Falls, near the American staircase.

580. FEGETALLA, Raddi.

1442. *F. conica*, Corda.

Goat Is., Niagara Falls; Pt. Colborne, Ont.; Bergen, Gen. Co.

581. ANEURA, Dumortier.

1443. *A. palmata*, Nees.

582. PELLIA, Raddi.

1444. *P. epiphylla*, Nees.

Smoke's Creek, W. Seneca, Erie Co.

583. CHILOSCYPUS, Corda.

1445. *C. polyanthos*, Corda.

584. LOPHOCOLEA, Nees.

1446. *L. heterophylla*, Nees.

Portage, Gen. Co.

585. SPHAGNÆCETIS, Nees.

1447. *S. communis*, Nees.
Bergen, Gen. Co.

586. JUNGERMANNIA, L.

1448. *J. curvifolia*, Dickson.
1449. *J. bicuspidata*, L.
Bergen, Gen. Co.

1450. *J. Schraderi*, Martius.

587. PLAGIOCHILA, Nees and Montague.

1451. *P. poreloides*, Lindenb.
Frenchman's Creek, Ont.

588. FRULLANIA, Raddi.

1452. *F. Eboracensis*, Lehm.

589. MADOTHECA, Dumortier.

1453. *M. platyphylla*, Dumort.

590. RADULA, Nees.

1454. *R. complanata*, Dumort.
1455. *R. pallens*, Nees. ?

591. PTILIDIUM, Nees.

1456. *P. ciliare*, Nees.

592. TRICHOCOLEA, Nees.

1457. *T. Tomentella*, Nees.
Bergen Swamp, Gen. Co.; Whirlpool, Ont.

593. MASTIGOBRYUM, Nees.

1458. *M. tridenticulatum*, Lindenb.

594. LEPIDOZIA, Nees.

1459. *L. reptans*, Nees.

CLASS V. THALLOGENÆ.

ORDER 116. LICHENES.

595. RAMALINA, Ach.

1460. *R. calicaris*, Fr., var. *fraxinea*, Fr.
 1461. var. *farinacea*, Fr.

596. CETRARIA, Ach.

1462. *C. sæpincola*, Ach.
 Lime Lake, Machias, Catt. Co.
 1463. *C. ciliaris*, Ach.
 1464. *C. lacunosa*, Ach.
 1465. *C. glauca*, Ach.
 1466. *C. Oakesiana*, Tuck.
 1467. *C. juniperina*, Ach.
 Lime Lake, Machias, Catt. Co.

597. EVERNIA, Ach.

1468. *E. furfuracea*, Mann.
 1469. *E. prunastri*, Ach.

598. USNEA, Ach.

1470. *U. barbata*, Fr.
 1471. var. *florida*, Fr.
 1472. var. *hirta*, Fr.
 1473. var. *rubiginea*, Michx.
 1474. var. *dasyopoga*, Fr.

599. ALECTORIA, Nyl.

1475. *A. jubata*, Ach.
 1476. var. *chalybeiformis*, Ach.
 1477. var. *implexa*, Fr.

600. THELOSCHISTES, Tuck.

1478. *T. parietinus*, Norm., var. *lychnea*, Schr.
 1479. var. *polycarpus*, Fr.
 1480. *T. chrysophthalmus*, L.
 Niagara Falls.
 1481. *candelarius*, Ach., var. *stellata*, Nyl.

601. PARMELIA, De Not.

1482. *P. crinita*, Ach.
 1483. *P. perforata*, Ach.

- 1484. *P. perlata*, Ach., var. *olivitorum*, Ach.
- 1485. *P. tiliacea*, Ach.
- 1486. *P. Borreri*, Turn., var. *rudecta*, Tuck.
- 1487. *P. saxatilis*, Fr.
- 1488. *P. lævigata*, Ach.
- 1489. *P. pertusa*, Schr.
- 1490. *P. physodes*, Ach., var. *enteromorpha*, Tuck.
- 1491. *P. colpodes*, Ach.
- 1492. *P. caperata*, Ach.
- 1493. *P. conspersa*, Ach.
- 1494. *P. olivacea*, Ach.

602. *PHYSCIA*, Fr.

- 1495. *P. ciliaris*, Ach. var. *angustata*, Tuck.
Niagara Falls.
- 1496. *P. aquila*, Nyl. var. *detonsa*, Tuck.
- 1497. *P. pulverulenta*, Nyl., var. *pityrea*, Fr.
- 1498. *P. speciosa*, Wulf., var. *stellata*, Tuck.
- 1499. var. *hypoleuca*, Ach.
- 1500. var. *leucomela*, (Escheo.)
- 1501. var. *galactophylla*, Tuck.
- 1502. *P. stellaris*, Nyl., var. *aipola*, Schr.
- 1503. var. *astroidea*, Tuck., *tribacia*, Fr.
- 1504. *P. obscura*, Nyl.
- 1505. var. *ciliata*, Tuck.
- 1506. var. *erythrocardia*, Tuck.

603. *PYXINE*, Fr.

- 1507. *P. cocoes*, Nyl., var. *sorediata*, Tuck.

604. *STICTA*, Delis.

- 1508. *S. pulmonaria*, Ach.
- 1509. *S. glomerulifera*, Delis.

605. *NEPHROMA*, Ach.

- 1510. *N. lævigatum*, Ach., var. *parile*, Ach.
- 1511. *N. tomentosum*, Koerb.
- 1512. var. *Helveticum*, Schr.

606. *PELTIGERA*, Fée.

- 1513. *P. apthosa*, Hoffm.
- 1514. *P. canina*, Hoffm.
- 1515. *P. polydactyla*, Hoffm.
- 1516. *P. rufescens*, Hoffm.
- 1517. *P. horizontalis*, Hoffm.

607. PANNARIA, Delis.

1518. *P. lanuginosa*, Kærb.
 1519. *P. rubiginosa*, Ach.
 1520. *P. lurida*, Nyl.
 1521. *P. tryptophylla*, Ach.
 1522. *P. microphylla*, Del.
 1523. *P. leucosticta*, Tuck.
 1524. *P. nigra*, Huds., Nyl.

608. EPHEBE, Fr.

1525. *E.* —————

Infertile. Portage, Wyom. Co.

609. SYNALLISSA, Tuck.

1526. *S.* —————

Infertile. Portage, Wyom. Co.

610. COLLEMA, (Hoff.) Fr.

1527. *C. pycnocarpum*, Nyl.
 1528. *C. cyrtaspis*, Tuck.
 1529. *C. microphyllum*, Ach.
 1530. *C. nigrescens*, (Huds.) Ach.
 1531. *C. pulposum*, (Bernh.) Ach.
 1532. *C. limosum*, (Ach.) Nyl.
 1533. *C. flaccidum*, Ach.

611. LEPTOGIUM, Fr.

1534. *L. lacerum*, (Sw.) Fr.
 1535. *L. pulchellum*, (Ach.) Nyl.
 1536. *L. tremelloides*, (L. fil.) Fr.
 1537. *L. chloromelum*, (Sw.) Nyl.
 1538. *L. myochroum*, (Ehrh.) Schær.
 1539. *var. saturninum*, (Dicks.) Tuck.

612. PLACODIUM, (DC.) Næg. and Hepp.

1540. *P. aurantiacum*, (Lightf.) Næg.
 1541. *P. cerinum*, (Hedw.) Næg.
 1542. *var. stillicidiorum*, Ach.
 1543. *P. rupestre*, (Scop.) Nyl.
 Niagara Falls.
 1544. *P. vitellinum*, (Ehrh.) Ach.

613. LECANORA Ach.

1545. *L. muralis*, (Schreb.) Schær.
 1546. *L. tartarea*, Ach., var. *arborea*.
 1547. *L. subfusca*, (L.) Ach.
 1548. var. *Hageni*, Ach.
 1549. var. *nigrofusca*, Tuck.
 1550. *L. Hageni*, Ach.
 Niagara Falls.
 1551. *L. albella*, Ach., var. *angulosa*, Fr
 1552. var. *caesio-rubella*, (Ach.)
 1553. *L. varia*, (Ehrh.) Fr.
 1554. *L. cinerea*, (L.) Sommf.
 1555. *L. verrucosa*, (Ach.) Laur.
 1556. *L. cervina*, (Pers.) Sommf.
 1557. var. *squamulosa*, Fr.
 1558. var. *pruinosa*, Ach.
 1559. var. *privigna*, Ach.
 1560. var. *simplex*, Koerb.
 1561. var. *clavus*, DC.

614. RINODINA, Mass.

1562. *R. sophodes*, (Ach.) Moss., var. *confragosa*, Nyl.
 1563. *R. Ascociscana*, Tuck.
 1564. *R. Bischoffii*, (Hepp.) Koerb.
 Williamsville, Erie Co.
 1565. *R. constans*, Nyl.
 1566. *R. milliaria*, Tuck.

615. PERTUSARIA, DC.

1567. *P. pertusa*, (L.) Ach.
 1568. *P. leioplaca*, Ach.
 1569. *P. velata*, (Turn.) Nyl.
 1570. *P. pustulata*, Aug.
 1571. *P. globularis*, Ach.

616. CONOTREMA, Tuck.

1572. *C. urceolatum*, Tuck.

617. GYALECTA, (Ach.) Anzi.

1573. *G. lutea*, Dicks.
 1574. *G. pineti*, Schrad.
 1575. *G. cupularis*, (Hedw.) Schær.

618. URCEOLARIA, Flot.

1576. *U. scruposa*, Ach., var. *bryophila*, Ach.
 1577. var. *ochroleuca*, Tuck.

619. MYRIANGIUM, Mont. and Berk.

1578. *M. Curtissii*, Mont. and Berk.

620. STEREOCAULON, Schreb.

1579. *S. paschale*, Laur.

621. CLADONIA, Hoffm.

1580. *C. alpicornis*, Fr.
 1581. *C. pyxidata*, (L.) Fr.
 1582. var. *cæspiticia*, Nyl.
 1583. *C. cariosa*, (Ach.) Spreng.
 1584. *C. fimbriata*, (L.) Fr.
 1585. *C. gracilis*, (L.) Fr.
 1586. var. *verticillata*, Fr.
 1587. var. *symphicarpa*, Tuck.
 1588. *C. mitrula*, Tuck.
 1589. *C. furcata*, (Huds.) Fr.
 1590. var. *crispata*, Flk.
 1591. var. *cristata*, Fr.
 1592. var. *racemosa*, Flk.
 1593. var. *subulata*, Flk.
 1594. *C. squamosa*, Hoffm.
 1595. *C. rangiferina*, Hoffm.
 1596. var. *sylvatica*, L.
 1597. var. *alpestris*, L.
 1598. *C. cornucopioides*, Fr.
 1599. *C. macilenta*, Hoffm.
 1600. *C. cristatella*, Tuck.

622. BÆOMYCES, Pers.

1601. *B. roseus*, Pers.

623. BIATORA, Fr.

1602. *B. Russellii*, Tuck.
 1603. *B. coarctata*, (Ach.) Th. Fr.
 1604. *B. viridescens*, (Schrad.) Fr.
 1605. *B. sanguineo-atra*, Fr.

1606. *B. exigua*, (Chaub.) Fr.
 1607. *B. uliginosa*, (Schr.) Fr.
 1608. *B. atropurpurea*, Mass.
 1609. *B. hypnophila*, Turn.
 1610. *B. rubella*, (Ehrh.) Rabenh.
 1611. var. *spadicea*, Tuck.
 1612. var. *Schweinitzii*, Tuck.
 1613. var. *incompta*, Nyl.
 1614. var. *inundata*, Fr.
 1615. var. *muscorum*, Nyl.
 1616. *B. chlorantha*, Tuck., var. *saxicola*, Willey.

624. *HETEROTHECIUM*, Flot.

1617. *H. sanguinarium*, (L.), Flot.

625. *LECIDEA*, Ach.

1618. *L. albo-cærulescens*, Fr.
 1619. *L. contigua*, Fr.
 1620. *L. enteroleuca*, Ach.
 1621. *L. melancheima*, Tuck.
 1622. *L. glaucospora*, Tuck.

626. *BUELLIA*, De Not.

1623. *B. atro-alba*, (Flot.)
 1624. var. *chlorospora*, Nyl.
 1625. *B. parasema*, (Ach.) Koerb.
 1626. *B. dialyta*, Nyl.
 1627. *B. myriocarpa*, (DC.) Mudd.
 1628. *B. turgescens*, Nyl.
 1629. *B. albo-atra*, (Hoffm.) Nyl.

627. *OPEGRAPHIA*, Ach.

1630. *O. varia*, (Pers.) Fr.
 1631. *O. viridis*, Pers.

628. *GRAPHIS*, Ach.

1632. *G. scripta*, (L.) Ach.

629. *LECANACTIS*, Eschw.

1633. *L. premnea*, Ach.
 1634. var. *chloroconia*, Tuck.

630. *ARTHONIA*, Ach.

1635. *A. lecideola*, Nyl.
 1636. *A. astroidea*, (Ach.) Nyl.

1637. *A. punctiformis*, Ach.

1638. *A. spectabilis*, Flot.

631. MYCOPORUM, Nyl.

1639. *M. pycnocarpum*, Nyl.

632. CALICIUM, Pers.

1640. *C. brunneolum*, Ach.

1641. *C. curtum*, Turn. and Borr.

1642. *C. lenticulare*, (Hoffm.) Ach.

1643. *C. Curtissii*, Tuck.

633. CONIOCYBE, Ach.

1644. *C. furfuracea*, (L.) Ach.

1645. *C. pallida*, (Pers.) Fr.

634. ENDOCARPON, Hedw.

1646. *E. miniatum*, (L.) Schær.

1647. *E. arboreum*, Schwein.

1648. *E. hepaticum*, Ach.

1649. *E. pusillum*, Hedw.

635. TRYPETHELIUM, Spreng.

1650. *T. virens*, Tuck.

636. SAGEDIA, Kœrb.

1651. *S. oxyspora*, (Nyl.) Tuck.

637. STAUROTHELE, Norm.

1652. *S. Drummondii*, Tuck.

Niagara Falls.

638. VERRUCARIA, Pers.

1653. *V. papillosa*, (Ach.) Kœrb.

1654. *V. margacea*, (Wahl.) Nyl.

1655. *V. nigrescens*, Pers.

1656. *V. virens*, Nyl.

1657. *V. muralis*, Ach.

1658. *V. pyrenophora*, (Ach.) Nyl.

639. PYRENULA, Ach.

1659. *P. thelæna*, (Ach.) Tuck.

1660. *P. punctiformis*, (Ach.) Næg.

1661. *P. gemmata*, (Ach.) Næg.

1662. *P. leucoplaca*, (Wallr.) Kœrb.

1663. *P. nitida*, Ach.

ORDER 116. FUNGI.

BY CHAS. H. PECK, STATE BOTANIST.

The following list of FUNGI is based upon specimens collected by Hon. GEORGE W. CLINTON and identified chiefly by me. Many of the species are represented in the Herbarium of the State Cabinet of Natural History by specimens contributed by Judge CLINTON, and have been specially noticed in the Annual Reports of the Regents of the University on the condition of the Cabinet. In view of this fact references are given to places in those Reports where the species have been mentioned.

The rapid progress made in the development of mycological science within the few years just past requires numerous changes in nomenclature. The synonymy incident to the changes, and, in a few instances, to errors of identification, has been given in the list and in a few cases extended even beyond its connection with the Reports mentioned.

C. H. P.

SUB-ORDER I. HYMENOMYCETES.

640. AGARICUS, L.

§ 1. *AMANITA*, Fr.1664. *A. vaginatus*, Bull. Reg. Rep. 23, p. 69.

Woods.

1665. *A. phalloides*, Fr. Reg. Rep. 23, p. 69.

Woods.

§ 2. *LEPIOTA*, Fr.1666. *A. procerus*, Scop. Reg. Rep. 23, p. 71.

Woods and fields.

1667. *A. Friesii*, Lasch. Reg. Rep. 26, p. 49.

Woods.

1668. *A. acutesquamosus*, Weinm. Reg. Rep. 23, p. 71.

In a grapery. In the second edition of *Epicrisis*, Fries makes this a subspecies of the preceding, and indeed the American specimens of the two forms run suspiciously near to each other.

1669. *A. cristatus*, Fr. Reg. Rep. 23, p. 72.

In a grapery, Feb. and March.

1670. *A. Americanus*, Pk. Reg. Rep. 23, p. 71.

Grassy ground, rarely on stumps.

1671. *A. cepæstipes*, Sow. Reg. Rep. 27, p. 92.

Tan bark in Hon. William G. Fargo's greenhouse.

1672. var. *luteus*, Fr.

With the typical form.

1673. *A. granulosus*, Batsch. Reg. Rep. 23, p. 72: ibid. 24, p. 102.
Woods and open places. The forms *A. carcharias* and *A. amianthinus*, which in the first edition of *Epicrisis* are given as subspecies of *A. granulosus*, in the second, are raised to the rank of species. The latter occurs in the eastern and northern parts of the State and will probably be found in the western part also.
1674. *A. naucinoides*, Pk. Reg. Rep. 29, p. 66. (*A. naucus*, Fr. Reg. Rep. 23, p. 72.)
Fields and grassy places.
- § 3. *ARMILLARIA*, Fr.
1675. *A. melleus*, Vahl. Reg. Rep. 23, p. 73.
Woods and fields, especially about stumps.
- § 4. *TRICHOLOMA*, Fr.
1676. *A. variegatus*, Scop. Reg. Rep. 23, p. 74.
Woods and pastures, about stumps.
1677. *A. multipunctus*, Pk. Reg. Rep. 25, p. 73.
Old logs in woods.
1678. *A. personatus*, Fr. Reg. Rep. 23, p. 75.
Woods and pastures.
- § 5. *CLITOCYBE*, Fr.
1679. *A. nebularis*, Batsch. Reg. Rep. 23, p. 76.
Pine woods.
1680. *A. clavipes*, Pers. (*A. carinosior*, Pk. Reg. Rep. 23, p. 76. *C. pinus*, Frost, Cat. and Ms.)
Pine woods.
1681. *A. Adirondackensis*, Pk. Reg. Rep. 23, p. 77.
Fallen leaves in woods.
1682. *A. Poculum*, Pk. Reg. Rep. 23, p. 77.
Decaying wood in woods. This scarcely differs from *A. cyathiformis*, Fr., except in not having the stem "fibrillose-reticulated;" but as that is given as an essential mark of the species, it seems best to consider the American plant distinct.
1683. *A. infundibuliformis*, Schaeff. Reg. Rep. 23, p. 76.
Pine woods, etc.
1684. *A. metachrous*, Fr. Reg. Rep. 23, p. 78.
Pine woods.
1685. *A. illudens*, Schw. Reg. Rep. 23, p. 77.
Decaying wood and stumps.

1686. *A. laccatus*, Scop. Reg. Rep. 23, p. 77: *ibid.* 31, p. 54.

Damp woods and open places. An extremely variable species. Small forms are very unlike the large ones in appearance, but intermediate forms connect them too closely for specific separation. Large forms sometimes approach very near the next species. In both the lamellæ are not infrequently as distinctly emarginate as in species of *Tricholoma*.

1687. *A. ochropurpureus*, Berk. Reg. Rep. 23, p. 77: *ibid.* 31, p. 34.

Thin woods and open places.

§ 6. *COLLYBIA*, Fr.

1688. *A. radicans*, Relh. Reg. Rep. 23, p. 79.

Woods, especially of beech.

1689. *A. platyphyllus*, Pers. (*A. hordus*, Fr.) Reg. Rep. 25, p. 73.

Woods, especially about stumps and logs.

1690. *A. velutipes*, Curt. Reg. Rep. 23, p. 79.

Decaying wood and stumps.

1691. *A. dryophilus*, Bull. Reg. Rep. 23, p. 79.

Woods, groves and pastures.

1692. *A. myriadophyllus*, Pk. Reg. Rep. 25, p. 75.

Decaying wood in woods.

1693. *A. cirrhatus*, Schum. Reg. Rep. 23, p. 80.

Vegetable mold and decaying fungi.

1694. *A. tuberosus*, Bull. Reg. Rep. 23, p. 80.

Vegetable mold and decaying fungi.

§ 7. *MYCENA*, Fr.

1695. *A. purus*, Pers. Reg. Rep. 23, p. 82.

Pine woods.

1696. *A. galericulatus*, Scop. Reg. Rep. 23, p. 81.

Decaying wood and ground in woods or damp places.

1697. *A. epipterygius*, Scop. Reg. Rep. 23, p. 83.

Woods.

1698. *A. leaianus*, Berk. Reg. Rep. 24, p. 62.

Decaying beech logs and branches.

1699. *A. leptophyllus*, Pk. Reg. Rep. 24, p. 63.

Mossy logs in woods.

1700. *A. subincarnatus*, Pk. Reg. Rep. 23, p. 83.

Under pine trees.

1701. *A. corticola*, Schum. Reg. Rep. 23, p. 84.

Mossy trunks of living elm, chestnut and apple trees. This fungus revives on the application of moisture, thereby indicating an affinity with species of *Marasmius*.

§ 8. *OMPHALIA*. Fr.

- 1702.
- A. Campanella*
- , Batsch. Reg. Rep. 23, p. 85.

Decaying wood in woods and open places.

- 1703.
- A. Fibula*
- . Bull. Reg. Rep. 23, p. 86.

Mossy ground in woods and old fields.

- 1704.
- A. gracillimus*
- , Weinm. Reg. Rep. 25, p. 76.

Fallen leaves and twigs in woods.

§ 9. *PLEUROTUS*, Fr.

- 1705.
- A. sapidus*
- , Kalchbr. Reg. Rep. 29, p. 38.

Decaying wood, stumps and trunks of trees. The spores of this fungus are lilac-tinted when caught on white paper, but on a dark back-ground they appear sordid-white. The spores of *A. ostreatus* are said to be white. It is probable that these species are frequently confused. I am not sure that we have the true white-spored *A. ostreatus*.

- 1706.
- A. salignus*
- , Fr. Reg. Rep. 22, p. 77.

Mossy base of trees.

- 1707.
- A. petaloides*
- , Bull. Reg. Rep. 22, p. 77.

Old logs and stumps.

- 1708.
- A. serotinus*
- , Schrad. Reg. Rep. 31, p. 54. (
- P. serotinoides*
- , Pk.) Reg. Rep. 23, p. 86.

Old logs in woods. This is a mere form of the preceding species, differing chiefly in wanting the squamulose points on the stem.

- 1709.
- A. porrigens*
- , Pers. Reg. Rep. 24, p. 64.

Decaying wood in woods.

- 1710.
- A. nidulans*
- , Pers. (
- Panus dorsalis*
- , Bosc.) Reg. Rep. 22, p. 81; 30, p. 71.

Decaying wood in woods. *A. nidulans*, Pers., and *Panus dorsalis*, Bosc., have evidently been confused, if indeed they are really distinct species. The specimen of "*Panus dorsalis*, Bosc." in Ravenel's Fung. Car. Exsic. II, No. 13, is clearly not distinct from *A. nidulans*, Pers. Our specimens have the beautiful incarnate-colored spores attributed by Fries to *A. nidulans*.

- 1711.
- A. atrocaeruleus*
- , Fr. Reg. Rep. 22, p. 77.

Decaying wood.

- 1712.
- A. applicatus*
- , Batsch. Reg. Rep. 22, p. 78.

Decaying wood.

- 1713.
- A. striatulus*
- , Fr. Reg. Rep. 30, p. 39.

Decaying pine wood.

§ 10. *VOLVARIA*, Fr.1714. *A. bombycinus*, Schæff.

Dead spots in maple trees.

§ 11. *PLUTEUS*, Fr.1715. *A. cervinus*, Schæff. Reg. Rep. 23, p. 87.

Decaying wood and stumps.

1716. *A. admirabilis*, Pk. Reg. Rep. 24, p. 64.

Old logs in woods.

§ 12. *ENTOLOMA*, Fr.1717. *A. Grayanus*, Pk. Reg. Rep. 24, p. 64.§ 13. *CLITOPILUS*, Fr.1718. *A. abortivus*, B. and C. Reg. Rep. 24, p. 66.

Woods.

§ 14. *LEPTONIA*, Fr.1719. *A. asprellus*, Fr. Reg. Rep. 24, p. 66.

Swamps and sphagnous marshes.

§ 15. *CLAUDOPUS*, Sm.1720. *A. variabilis*, Pers. Reg. Rep. 24, p. 69.

Decaying wood.

§ 16. *PHOLIOTA*, Fr.1721. *A. adiposus*, Fr. Reg. Rep. 23, p. 90.

Decaying wood.

1722. *A. squarrosus*, Mull. Reg. Rep. 24, p. 67.

Decaying wood.

§ 17. *HEBELOMA*, Fr.1723. *A. communis*, Pk. Reg. Rep. 23, p. 106; *ibid.* 30, p. 70.

Woods and open places.

§ 18. *INOCYBE*, Fr.1724. *A. subochraceus*, Pk. Reg. Rep. 23, p. 95.

Groves and open places.

1725. *A. Colvinii*, Pk. Reg. Rep. 28, p. 49.

Sandy beach of the lake.

§ 19. *FLAMMULA*, Fr.1726. *A. spumosus*, Fr. (*A. polychrous*, Berk.) Reg. Rep. 23, p. 91.

Pastures, fields and borders of woods.

§ 20. *NAUCORIA*, Fr.1727. *A. semiorbicularis*, Bull. Reg. Rep. 23, p. 93.

Woods and fields.

1728. *A. autumnalis*, Pk. Reg. Rep. 23, p. 92.

Decaying wood in woods.

§ 21. *GALERA*, Fr.

1729. *A. sphagnorum*, Pers. Reg. Rep. 23, p. 94.
Sphagnous marshes.

§ 22. *CREPIDOTUS*, Fr.

1730. *A. dorsalis*, Pk. Reg. Rep. 24, p. 69.
Decaying wood.

1731. *A. fulvotomentosus*, Pk. Reg. Rep. 26, p. 57.
Decaying wood.

§ 23. *PSALLIOTA*, Fr.

1732. *A. silvaticus*, Schæff. Reg. Rep. 26, p. 59: *ibid.* 28, p. 85.
Woods.

§ 24. *STROPHARIA*, Fr.

1733. *A. semiglobatus*, Batsch. Reg. Rep. 23, p. 98.
Dung and mushroom beds.

§ 25. *HYPHOLOMA*, Fr.

1734. *A. sublateritius*, Schæff. Reg. Rep. 31, p. 54. (*A. perplexus*, Pk. Reg. Rep. 23, p. 99.)
Old logs and stumps. The differences between *A. sublateritius* and *A. perplexus* are so slight that it seems best to unite them.

1735. *A. appendiculatus*, Bull. (*A. cernuus*, Mull.) Reg. Rep. 23, p. 100.
Decaying wood in woods and open places.

1736. *A. incertus*, Pk. Reg. Rep. 29, p. 40.
Copses and grassy places.

§ 26. *PANÆOLUS*, Fr.

1737. *A. campanulatus*, L. Reg. Rep. 23, p. 102.
Dung heaps.

1738. *A. papilionaceus*, Bull. Reg. Rep. 23, p. 101.
Dung heaps and rich soil.

641. *COPRINUS*, Fr.

1739. *C. comatus*, Fr. Reg. Rep. 23, p. 103.
Rich or manured ground.

1740. *C. atramentarius*, Bull. Reg. Rep. 22, p. 79: *ibid.* 24, p. 102.
Rich or manured ground.

1741. *C. tomentosus*, Bull. Reg. Rep. 23, p. 104.
Dung heaps.

1742. *C. semilanatus*, Pk. Reg. Rep. 24, p. 71.
Dung heaps and rich ground.

1743. *C. niveus*, Pers. Reg. Rep. 23, p. 104.
Dung heaps.

1744. *C. micaceus*, Bull. Reg. Rep. 23, p. 104.

On and about old stumps.

642. CORTINARIUS, Fr.

1745. *C. vernalis*, Pk. Reg. Rep. 23, p. 112.

Wet ground in woods and pastures.

643. PAXILLUS, Fr.

1746. *P. atrotomentosus*, Batsch. Reg. Rep. 22, p. 79.

Decaying logs and stumps in woods.

1747. *P. porosus*, Berk,

Ground and decaying wood.

644. HYGROPHORUS, Fr.

1748. *H. ceraceus*, Wulf. Reg. Rep. 23, p. 113.

Open woods.

1749. *H. miniatus*, Fr.

Woods and swamps. I suspect that *H. congelatus*, Reg. Rep. 23, p. 114, is a mere form of this species.

1750. *H. eburneus*, Bull. Reg. Rep. 26, p. 64.

Open woods.

645. LACTARIUS, Fr.

1751. *L. volemus*, Fr. Reg. Rep. 23, p. 116.

Woods and open places. Fries and other continental authors write the specific name "*volemus*," but some English authors write it "*volemum*."

1752. *L. camphoratus*, Fr. Reg. Rep. 23, p. 117.

Woods.

646. CANTHARELLUS, Adans.

1753. *C. cibarius*, Fr. Reg. Rep. 23, p. 122.

Woods and grassy places.

1754. *C. aurantiacus*, Wulf. Reg. Rep. 23, p. 123.

Damp woods.

1755. *C. floccosus*, Schw. Reg. Rep. 23, p. 122.

Woods.

1756. *C. minor*, Pk. Reg. Rep. 23, p. 122.

Thin woods.

647. MARASMIUS, Fr.

1757. *M. oreades*, Bolt. Reg. Rep. 23, p. 124.

Grassy fields, roadsides, etc.

1758. *M. archyropus*, Pers.

Woods.

1759. *M. erythropus*, Fr. (*M. plancus*, Fr.) Reg. Rep. 23, p. 125.

Woods.

1760. *M. rotula*, Scop. Reg. Rep. 23, p. 125.

Dead leaves and sticks.

1761. *M. campanulatus*, Pk. Reg. Rep. 23, p. 126.

Dead leaves and sticks. This may be only a form of *M. siccus*, Schw., from which, if we may rely on Schweinitz's description, it differs in its smaller size, paler stem and not venose lamellæ.

1762. *M. subvenosus*, Pk. Reg. Rep. 23, p. 128.

Fallen leaves of poplar.

1763. *M. resinosus*, Pk. (*M. decurrens*, Pk.) Reg. Rep. 24, p. 77.

Fallen leaves and ground. The name *M. decurrens*, being pre-occupied, *M. resinosus* is applied to our plant instead of it.

1764. *M. elongatipes*, Pk. (*M. longipes*, Pk.) Reg. Rep. 26, p. 66.

Fallen leaves in woods. *M. longipes* having been previously employed in connection with another species, *M. elongatipes* is substituted as the name of our plant.

1765. *M. cæspitosus*, Pk. Reg. Rep. 26, p. 65.

Decaying wood and stumps.

1766. *M. minutulus*, Pk. Reg. Rep. 27, p. 97.

Dead ash leaves.

648. LENTINUS, Fr.

1767. *L. lepideus*, Fr. Reg. Rep. 23, p. 126.

Decaying wood and stumps.

1768. *L. Lecomtei*, Fr. Reg. Rep. 22, p. 80: *ibid.* 24, p. 103.

Decaying wood and stumps.

1769. *L. vulpinus*, Fr. Reg. Rep. 25, p. 80.

Trunks of ash trees.

649. PANUS, Fr.

1770. *P. stypticus*, Bull. Reg. Rep. 22, p. 81.

Decaying wood.

1771. *P. operculatus*, B. and C. Reg. Rep. 27, p. 97: *ibid.* 30, p. 71.

Dead bark of alders, etc.

650. TROGIA, Fr.

1772. *T. crispa*, Pers. (*Cantharellus crispus*, Fr.) Reg. Rep. 22, p. 80: 23, p. 123.

Dead trunks, stumps and branches.

1773. *T. alni*, Pk. Reg. Rep. 31, p. 54. (*Plicatura alni*, Pk.) Reg. Rep. 24, p. 76.

Dead alders. *Merulius niveus*, Fr., (*Epicrasis*, Edition II, p. 592,) is probably the same species, but its affinity appears to me to be with species of *Trogia* rather than with those of *Merulius*.

651. LENZITES, Fr.

1774. *L. betulina*, L. Reg. Rep. 22, p. 81.

Decaying wood.

1775. *L. sepiaria*, Fr. Reg. Rep. 22, p. 81.

Decaying wood. *L. sepiaria* usually occurs on trunks of acerose trees and *L. vialis* on trunks of frondose trees, but sometimes both depart from their usual habitat.

1776. *L. vialis*, Pk. Reg. Rep. 26, p. 67.

Decaying wood.

652. SCHIZOPHYLLUM, Fr.

1777. *S. commune*, Fr. Reg. Rep. 22, p. 81.

Decaying wood and branches.

653. BOLETUS, Fr.

1778. *B. luteus*, L. Reg. Rep. 23, p. 128.

Sandy Soil.

1779. *B. flavidus*, Fr. Reg. Rep. 23, p. 129.

Woods and open places.

1780. *B. strobilaceus*, Scop. Reg. Rep. 23, p. 132.

Woods and open places.

654. POLYPORUS, Fr.

§ 1. *MESOPUS*.

1781. *P. ovinus*, Schæff. Reg. Rep. 22, p. 81.

Pine woods.

1782. *P. brumalis*, Pers. Reg. Rep. 22, p. 82.

Decaying wood.

1783. *P. perennis*, L. Reg. Rep. 22, p. 82.

Woods and open places.

1784. *P. Morgani*, Frost Ms.

Woods.

§ 2. *PLEUROPUS*.

1785. *P. picipes*, Fr. Reg. Rep. 25, p. 82.
Decaying wood.
1786. *P. lucidus*, Fr. Reg. Rep. 22, p. 82.
Decaying wood of hemlock.

§ 3. *MERISMA*.

1787. *P. giganteus*, Pers. Reg. Rep. 22, p. 82.
Base of trees.
1788. *P. frondosus*, Fr. Reg. Rep. 24, p. 78.
Decaying wood.
1789. *P. sulfureus*, Bull. Reg. Rep. 22, p. 82.
Decaying wood.

§ 4. *APUS*.

1790. *P. lacteus*, Fr. Reg. Rep. 22, p. 82.
Old logs.
1791. *P. cæsius*, Schrad. Reg. Rep. 24, p. 79.
Decaying wood and shrubs.
1792. *P. gilvus*, Schw. Reg. Red. 22, p. 82.
Decaying wood.
1793. *P. fumosus*, Pers. Reg. Rep. 24, p. 79.
Decaying wood.
1794. *P. adustus*, Willd. Reg. Rep. 22, p. 82.
Decaying wood.
1795. *P. nigropurpurascens*, Schw. Reg. Rep. 30, p. 75.
Decaying wood. *Gleoporus nigropurpurascens*, Schw. (Rep. 22, p. 84) and *Glaoporus conchoides*, Mont., are other names of this species.
1796. *P. pubescens*, Fr. (*P. Sullivantii*, Mont.) Reg. Rep. 22, p. 84.
Decaying wood.
1797. *P. resinosus*, Schrad. Reg. Rep. 22, p. 83. (*P. rubiginosus*, Schrad. Reg. Rep. 24, p. 79.)
Decaying wood.
1798. *P. albellus*, Pk. Reg. Rep. 30, p. 45.
Decaying wood of birch.
1799. *P. betulinus*, Bull. Reg. Rep. 24, p. 79.
Decaying wood of birch.
1800. *P. applanatus*, Pers. Reg. Rep. 22, p. 83.
Decaying wood.
1801. *P. fomentarius*, L. Reg. Rep. 22, p. 83.
Decaying wood.

1802. *P. igniarius*, L. Reg. Rep. 22, p. 83.
Decaying wood.
1803. *P. conchatus*, Pers. Reg. Rep. 27, p. 98.
Decaying ash wood.
1804. *P. salicinus*, Fr. Reg. Rep. 23, p. 52.
Decaying birch wood.
1805. *P. marginatus*, Fr. Reg. Rep. 24, p. 79.
Decaying wood.
1806. *P. cinnabarinus*, Jacq. Reg. Rep. 22, p. 83,
Decaying wood. This species and *Polyporus perennis* are
referred by some mycologists to the genus *Trametes*.
1807. *P. biformis*, Klotsch. Reg. Rep. 22, p. 83. (*P. Caroliniensis*, B. and
G., Reg. Rep. 22, p. 83.)
Decaying wood.
1808. *P. hirsutus*, Wulf. Reg. Rep. 22, p. 83.
Decaying wood.
1809. *P. abietinus*, Dicks. Reg. Rep. 22, p. 84.
Decaying wood of acerose trees.
1810. *P. pergamenus*, Fr. (*P. laceratus*, Berk., Reg. Rep. 22, p. 84: *P.*
elongatus, Berk., Reg. Rep. 24, p. 79.)
Decaying wood.
1811. *P. versicolor*, L. Reg. Rep. 22, p. 84.
Decaying wood.
1812. *P. conchifer*, Schw. Reg. Rep. 26, p. 69.
Decaying wood.
1813. *P. virgineus*, Schw. Reg. Rep. 22, p. 84.
Decaying wood.
1814. *P. scutellatus*, Schw. Reg. Rep. 22, p. 83.
Decaying wood of alder and witch hazel.
1815. *P. vulgaris*, Fr. Reg. Rep. 27, p. 98.
Decaying wood.
1816. *P. Gordoniensis*, B. and Br. Reg. Rep. 26, p. 70.
Decaying wood.
1817. *P. vaporarius*, Pers. Reg. Rep. 28, p. 84.
Decaying wood.
1818. *P. Vaillantii*, Fr. Reg. Rep. 24, p. 79.
Decaying wood.
1819. *P. salviæ*, B. and C. Reg. Rep. 27, p. 79.
Decaying wood.

1820. *P. vesiculosus*, B. and C. Reg. Rep. 24, p. 79.
Decaying wood.
1821. *P. callosus*, Fr. Reg. Rep. 30, p. 46.
Decaying wood
1822. *P. obducena*, Pers. Reg. Rep. 30, p. 46.
Decaying wood.
1823. *P. induratus*, Pk. Reg. Rep. 31, p. 37.
Decaying wood.
1824. *P. farinellus*, Fr. Reg. Rep. 30, p. 46.
Decaying wood.
1825. *P. nitidus*, Fr. (*P. Armeniacus*, Berk.) Reg. Rep. 26, p. 70.
Decaying wood.
1826. *P. ferruginosus*, Schrad. Reg. Rep. 26, p. 70.
Decaying wood.
1827. *P. incarnatus*, A. and S. Reg. Rep. 27, p. 98.
Decaying wood.
1828. *P. rhodellus*, Fr.
Decaying Wood.
1829. *P. attenuatus*, Pk. Reg. Rep. 26, p. 70.
Decaying wood. This scarcely differs from the preceding
except in its smaller pores. It is perhaps a mere variety.

655. TRAMETES, Fr.

1830. *T. mollis*, Sommf. (*Hexagona carbonaria*, B. and C.) Reg. Rep. 26.
p. 70.
Decaying wood.

656. DÆDALEA, Fr.

1831. *D. unicolor*, Fr. (*D. cinerea*, Fr.) Reg. Rep. 22, p. 84.
Decaying wood.
1832. *D. confragosa*, Pers. Reg. Rep. 22, p. 84.
Lenzites Cratægi, Berk., (Report 22, p. 81) and *Trametes ru-*
bescens, A. and S., are regarded as mere varieties of this
fungus. See Report 30, pp. 71-74.

657. FAVOLUS, Fr.

1833. *F. canadensis*, Klotsch. (*F. Europæus*, Fr.) Reg. Rep. 23, p. 52, *Polyph-*
orus Boncheanus, Fr. Reg. Rep. 22, p. 82; 26, p. 90.
Dead branches of Hickory and beech. For the identification
of our specimens I am indebted to the Rev. C. Kalchbrenner,

the eminent mycologist of Hungary. The species is variable (see Report 26, p. 90), and the American forms have been generally referred to *Favolus Europæus* and *Polyporus Boncheanus*. Under the former name it has recently been distributed by Mr. Ellis in N. A. Fungi Exsiccati, Cent. VII, No. 604.

658. MERULIUS, Fr.

1834. **M. tremellosus**, Schrad. Reg. Rep. 22, p. 84.
Decaying Wood.
1835. **M. lacrymans**, Wulf. Reg. Rep. 25, p. 82.
Garden pot in stove.
1836. **M. bellus**, B. and C. Reg. Rep. 27, p. 99.
Decaying wood.
1837. **M. porinoides**, Fr. Reg. Rep. 27, p. 99.
Decaying wood.

659. FISTULINA, Bull.

1838. **F. hepatica**, Huds. Reg. Rep. 22, p. 84.
Stumps and base of oak and chestnut trees.

660. HYDNUM, L.

1839. **H. ferrugineum**, Fr. Reg. Rep. 24 p. 80.
Open woods.
1840. **H. coralloides**, Scop. Reg. Rep. 22, p. 85.
Decaying wood.
1841. **H. erinaceum**, Bull. Reg. Rep. 22, p. 85.
Decaying wood.
1842. **H. ochraceum**, Pers. Reg. Rep. 22, p. 85.
Decaying wood.
1843. **H. septentrionale**, Fr. (*H. cirrhatum*, Pers.) Reg. Rep. 22, p.
Decaying wood.
1844. **H. Himantia**, Schw. Reg. Rep. 22, p. 85.
Half buried sticks.
1845. **H. sulphureum**, Schw. Reg. Rep. 26, p. 71.
Decaying wood.
1846. **H. cinnabarinum**, Schw.
Under side of pine logs.
1847. **H. fuscoatrum**, Fr.
Old logs in woods.

1848. *H. mucidum*, Pers. Reg. Rep. 22, p. 85.
Old logs.

661. TREMELLODON, Pers.

1849. *T. gelatinosum*, Scop. (*Hydum gelatinosum*, Scop.) Reg. Rep. 22, p. 85
Decaying wood in woods.

662. IRPEX, Fr.

1850. *I. lacteus*, Fr. Reg. Rep. 27, p. 99.
Decaying wood.
1851. *I. Tulipiferae*, Schw. Reg. Rep. 22, p. 85.
Decaying wood.
1852. *I. cinnamomeus*, Fr. Reg. Rep. 22, p. 86.
Decaying wood.

663. PHLEBIA, Fr.

1853. *P. zonata*, B. and C. Reg. Rep. 24, p. 80.
Poplar wood and bark.
1854. *P. radiata*, Fr. Reg. Rep. 24, p. 80.
Trunks of cultivated cherry.

664. GRANDINIA, Fr.

1855. *G. membranacea*, G. and C.
Decaying wood.

665. ODONTIA, Fr.

1856. *O. fimbriata*, Fr. Reg. Rep. 24, p. 80.
Decaying wood.

666. KNEIFFIA, Fr.

1857. *K. setigera*, Fr. Reg. Rep. 24, p. 80.
Decaying wood.
1858. *K. candidissima*, Fr. Reg. Rep. 24, p. 80.
Decaying wood.

667. CRATERELLUS, Fr.

1859. *C. cornucopioides*, Fr. Reg. Rep. 22, p. 86.
Damp places in woods.
1860. *C. lutescens*, Pers. Reg. Rep. 24, p. 81.
Damp woods and swamps.

668. THELEPHORA, Ehrh.

1861. **T. Willeyi**, Clinton. Reg. Rep. 26, p. 71.
Woods.
1862. **T. Schweinitzii**, Pk. Reg. Rep. 29, p. 67. (*T. pallida*, Schw.) Reg.
Rep. 22, p. 86.
Woods and fields. *Telephora pallida*, Pers., has priority over
Telephora pallida, Schw., hence the latter name cannot
stand. I have therefore substituted another name for
Schweinitzi's species.
1863. **T. sebacea**, Fr. Reg. Rep. 24, p. 81.
Incrusting grasses and low plants.
1864. **T. pedicellata**, Schw.
Twigs and branches of alders.

669. STEREUM, Fr.

1865. **S. purpureum**, Pers. Reg. Rep. 22, p. 86: ibid. 30, p. 75.
Dead trees and branches.
1866. **S. versicolor**, Fr. (*S. fasciatum*, Schw.) Reg. Rep. 22, p. 86.
Decaying wood.
1867. **S. hirsutum**, Willd. Reg. Rep. 22, p. 86.
Decaying wood.
1868. **S. spadiceum**, Fr. Reg. Rep. 22, p. 86.
Decaying wood.
1869. **S. complicatum**, Fr. Reg. Rep. 22, p. 86.
Decaying wood.
1870. **S. striatum**, Fr. Reg. Rep. 22, p. 86. (*Thelephora siricea*, Schw.)
Decaying wood.
1871. **S. rugosum**, Pers. Reg. Rep. 24, p. 80.
Old logs and trees.
1872. **S. Curtisii**, Berk. Reg. Rep. 24, p. 80.
Oak trees and branches.
1873. **S. albobadium**, Schw. Reg. Rep. 24, p. 80.
Decaying wood.
1874. **S. candidum**, Pk. Reg. Rep. 28, p. 52.
Bark of trees. In Syn. Fung. Car., Schweinitz described this
fungus under the name *Thelephora candida*. (1061.) In the
same work he described another fungus under the name
Merisma candida. (1069). In his Syn. Fung. North Amer-
ica, he placed both species in the genus *Thelephora* and

changed the name of the former to *Thelephora candidissima*. But inasmuch as the present classification again places the two species in different genera, the one in *Thelephora*, the other in *Stereum*, we have thought best to adopt the older name for this fungus.

1875. *S. frustulosum*, Fr. Reg. Rep. 22, p. 87.

Decaying wood.

1876. *S. acerinum*, Pers. Reg. Rep. 22, p. 87.

Bark of red cedar.

670. HYMENOCHÆTE, Lev.

1877. *H. rubiginosa*, Schrad. Reg. Rep. 22, p. 86.

This and the two following species were reported as members of the genus *Stereum*.

1878. *H. tabacina*, Sow. Reg. Rep. 22, p. 86.

1879. *H. corrugata*, Fr. Reg. Rep. 23, p. 53.

1880. *H. spreta*, Pk. Reg. Rep. 30, p. 47.

671. CORTICIUM, Fr.

1881. *C. cinereum*, Fr. Reg. Rep. 22, p. 87.

Dead branches.

1882. *C. auberianum*, Mont. Reg. Rep. 24, p. 81.

Dead bark.

1883. *C. lilacino-fuscum*, B. and C. Reg. Rep. 27, p. 99.

Dead bark.

1884. *C. Sambuci*, Fr. Reg. Rep. 30, p. 48.

Dead stems of elder.

1885. *C. polyporoideum*, B. and C.

Old logs.

1886. *C. læve*, Pers.

Old logs.

1887. *C. incarnatum*, Fr. Reg. Rep. 24, p. 80.

Decaying wood and branches.

1888. *C. scutellare*, B. and C. (*C. liquidamberis*, B. and C.) Reg. Rep. 24, p. 81.

Dead bark and branches.

1889. *C. sulfureum*, Fr. Reg. Rep. 29, p. 46.

Decaying wood.

1890. *C. cæruleum*, Schrad. Reg. Rep. 30, p. 48.

Decaying wood.

1891. **C. bicolor**, Pk. Reg. Rep. 26, p. 72.
Decaying wood.
1892. **C. Martianum**, B. and C.
Decaying wood.
1893. **C. salicinum**, Fr. Reg. Rep. 24, p. 81. (*Exidia cinnabarina*, B. and C.) Reg. Rep. 22, p. 88.
Dead willows.
1894. **C. amorphum**, Pers. (*Nodularia balsamicola*, Pk.) Reg. Rep. 24, p. 96.
Dead bark of balsam fir.
1895. **C. Oakesii**, B. and C. Reg. Rep. 22, p. 87.
Bark of oak, ash, etc.

672. CYPHELLA, Fr.

1896. **C. fulva**, B. and R. Reg. Rep. 24, p. 83.
Dead alders.

673. SOLENIA, Pers.

1897. **S. candida**, Pers. Reg. Rep. 22, p. 95.
Decaying wood.
1898. **S. fasciculata**, Pers.
Decaying wood.
1899. **S. ochracea**, Hoffm. Reg. Rep. 25, p. 83.
Decaying wood.
1900. **S. anomala**, Pers. (*Peziza anomala*, Pers.) Reg. Rep. 23, p. 62.
Decaying wood and bark.

674. CLAVARIA, L.

1901. **C. Kunzei**, Fr. Reg. Rep. 24, p. 81.
Woods.
1902. **C. tetragona**, Schw. Reg. Rep. 24, p. 82.
Woods.
1903. **C. pyxidata**, Pers.
Woods.
1904. **C. aurea**, Schæff. Reg. Rep. 22, p. 87.
Woods.
1905. **C. spinulosa**, Pers. Reg. Rep. 22, p. 82.
Woods.
1906. **C. apiculata**, Fr. Reg. Rep. 24, p. 82.
Decaying wood.

1907. *C. fusiformis*, Sow. Reg. Rep. 23, p. 53.
Damp woods and Swamps.
1908. *C. inæqualis*, Mull. Reg. Rep. 22, p. 87.
Damp woods and Swamps.
1909. *C. pistillaris*, L. Reg. Rep. 23, p. 53.
Woods.
1910. *C. Ligula*, Schæff. Reg. Rep. 24, p. 82.
Woods.
1911. *C. fistulosa*, Fr. Reg. Rep. 26, p. 72.
Woods.
1912. *C. pulchra*, Pk. Reg. Rep. 28, p. 53.
Woods and damp places.
1913. *C. mucida*, Pers. Reg. Rep. 24, p. 82.
Damp decaying wood.

675. CALOCERA, Fr.

1914. *C. viscosa*, Pers. Reg. Rep. 24, p. 82.
Decaying wood.
1915. *C. cornea*, Batsch. Reg. Rep. 24, p. 82.
Decaying wood.
1916. *C. palmata*, Schum. Reg. Rep. 24, p. 82.
Decaying wood.

676. TYPHULA, Pers.

1917. *T. muscicola*, Pers. (*Pistillaria muscicola*, Pers.) Reg. Rep. 22, p. 87.
Mosses, especially *Climacium Americanum*.

677. PHYSALACRIA, Pk.

1918. *P. inflata*, Schw. (*Mitrula inflata*, Schw.) Reg. Rep. 27, p. 47.
Decaying wood and bark.

678. TREMELLA, Dill.

1919. *T. aurantia*, Schw. Reg. Rep. 22, p. 88.
Dead spruce and pine.
1920. *T. mesenterica*, Retz. Reg. Rep. 22, p. 88.
Decaying wood.
1921. *T. albida*, Huds. Reg. Rep. 25, p. 83.
Decaying wood.

1922. **T. foliacea**, Pers. Reg. Rep. 24, p. 80.

Decaying wood.

1923. **T. frondosa**, Fr. Reg. Rep. 26, p. 72.

Decaying wood.

1924. **T. vesicaria**, Bull. Reg. Rep. 28, p. 53.

Damp shaded ground.

679. EXIDIA, Fr.

1925. **E. glandulosa**, Bull. Reg. Rep. 22, p. 88.

Dead trunks and branches.

1926. **E. repanda**, Fr.

Dead trunks and branches.

680. NÆMATELIA, Fr.

1927. **N. nucleata**, Schw. Reg. Rep. 24, p. 83.

Dead trunks and branches.

681. GUEPINIA, Fr.

1928. **G. spathularia**, Fr. Reg. Rep. 24, p. 80.

Decaying wood.

682. DITIOLA, Fr.

1929. **D. radicata**, Fr. Reg. Rep. 27, p. 101.

Decaying pine wood.

683. DACRYMYCES, Nees.

1930. **D. stillatus**, Nees. Reg. Rep. 22, p. 88.

Decaying wood.

1931. **D. deliquescens**, Duby. (*D. tortus* Fr.) Reg. Rep. 22, p. 88.

Decaying wood.

1932. **D. fragiformis**, Nees. Reg. Rep. 27, p. 101.

Decaying wood.

1933. **D. minor**, Pk. Reg. Rep. 30, p. 49.

Decaying wood.

684. EXOBASIDIUM, Wor.

1934. **E. Cassandræ**, Pk. Reg. Rep. 29, p. 46.

Living leaves of *Cassandra calyculata*.

SUB-ORDER 2. GASTEROMYCETES.

685. PHALLUS, L.

1935. *P. Ravenelii*, B. & C.
Woods.

686. CLATHRUS, Mich.

1936. *C. cancellatus*, L.
Ground.

687. TULOSTOMA, Pers.

1937. *T. mammosum*, Fr.
Sandy soil.

688. GEASTER, Mich.

1938. *G. saccatus*, Fr. Reg. Rep. 23, p. 53.
Woods.

689. BOVISTA, Dill.

1939. *B. plumbea*, Pers. Reg. Rep. 22, p. 88.
Grassy fields.

690. LYCOPERDON, Pers.

1940. *L. giganteum*, Batsch.
Fields and gardens.
1941. *L. cyathiforme*, Bosc. (*L. giganteum*, Batsch.) Reg. Rep. 23, p. 53;
(*L. alboburpureus*, Frost Cat.)
Fields and pastures.
1942. *L. pedicellatum*, Pk. Reg. Rep. 26, p. 73.
Decaying wood and ground in woods.
1943. *L. Wrightii*, B. & C. Reg. Rep. 22, p. 88.
Fields and grassy places.
1944. *L. gemmatum*, Batsch. Reg. Rep. 22, p. 88.
Ground and old stumps.
1945. *L. pyriforme*, Schæff. Reg. Rep. 22, p. 88.
Ground and decaying wood.
1946. *L. pusillum*, Fr.
Fields and pastures.

691. SCLERODERMA, Pers.

1947. **S. vulgare**, Fr. Reg. Rep. 24, p. 89.
Ground and decaying wood.
1948. **S. bovista**, Fr.
Ground.

692. PHYSARUM, Pers.

1949. **P. cinereum**, Batsch. (*Didymium cinereum*, Fr.) Reg. Rep. 23, p. 53.
Moss, grass, bark, etc.
1950. **P. contextum**, Pers. (*Diderma flavidum*, Pk.) Reg. Rep. 28, p. 54.
Decaying wood.
1951. **P. sinuosum**, Bull. (*Angioridium sinuosum*, Grev.) Reg. Rep. 26,
p. 75.
Moss, sticks, etc.

693. TILMADOCHÉ, Fr.

1952. **T. nutans**, Pers. (*Physarum nutans*, Pers.) Reg. Rep. 22, p. 89.
Decaying wood.

694. CRATERIUM, Trent.

1953. **C. leucocephalum**, Pers. Reg. Rep. 26, p. 75.
Moss, sticks, etc.

695. BADHAMIA, Berk.

1954. **B. rubiginosa**, Chev. (*Croterium obovatum*, Pk.) Reg. Rep. 26, p. 75.
Decaying wood and leaves.

696. DIDYMIUM, Schrad.

1955. **D. eximium**, Pk. Reg. Rep. 31, p. 41.
Ash wood.

697. FULIGO, Hall.

1956. **F. varians**, Sommf. (*Æthelium septicum*, Fr.) Reg. Rep. 22, p. 89.
Æ. vaporarium, Fr.
Decaying wood, etc. Tan bark in stoves.

698. CHONDRIODERMA, Rost.

1957. **C. testaceum**, Fr. (*Ciderma Mariae-Wilsoni*, Clinton.) Reg. Rep. 26,
p. 74.
Mosses, stems and Leaves.

1958. **C. spumarioides**, Fr. (*Didermia farinaceum*, Pk.) Reg. Rep. 26, p. 74.
Leaves and bark.

699. LEOCARPUS, Lk.

1959. **L. fragilis**, Dicks. (*L. vermicosus*, Pers.) Reg. Rep. 23, p. 53.
Sticks, leaves and wood.

700. DIACHÆA, Fr.

1960. **D. leucopoda**, Bull. (*D. elegans*, Fr.) Reg. Rep. 23, p. 54.
Leaves, moss, etc, living or dead.

701. STEMONITIS, Gled.

1961. **S. fusca**, Roth. Reg. Rep. 24, p. 84.
Decaying wood.
1962. **S. ferruginea**, Ehrh. Reg. Rep. 22, p. 89.
Decaying wood.

702. COMATRICHA, Preuss.

1963. **C. typhina**, Roth. (*Stemonitis typhoides*, DC.) Reg. Rep. 25, p. 83.
Decaying wood.

703. LAMPRODERMA, Rost.

1964. **L. physaroides**, A. & S. Reg. Rep. 29, p. 47.
Decaying wood.
1965. **L. arcycrionoides** var. *iridea*, Cke.
Dead branchlets of *Vitis*.

704. TUBULINA, Pers.

1966. **T. cylindrica**, Bull. (*Licea cylindrica*, Bull.) Reg. Rep. 26, p. 76.
Decaying wood.

705. TRICHIA, Hail.

1967. **T. chrysosperma**, Bull. Reg. Rep. 24, p. 84.
Decaying wood.
1968. **T. varia**, Pers. Reg. Rep. 24, p. 84.
Decaying wood.
1969. **T. fallax**, Pers. Reg. Rep. 30, p. 50.
Decaying wood.

706. ARCYRIA, Hill.

1970. *A. punicea*, Pers. Reg. Rep. 24, p. 84.
Decaying wood.
1971. *A. incarnata*, Pers. Reg. Rep. 25, p. 84.
Decaying wood.
1972. *A. cinerea*, Bull. Reg. Rep. 22, p. 89. (*A. digitata*, Schw.) Reg. Rep. 23, p. 53.
Decaying wood.

707. HEMIARCYRIA, Rost.

1973. *H. clavata*, Pers. (*Trichia clavata*, Pers.) Reg. Rep. 22, p. 89.
Decaying wood.
1974. *H. rubiformis*, Pers. (*Trichia rubiformis*, Pers.) Reg. Rep. 22, p. 89.
(*T. pyriiformis*, Hoff.) Reg. Rep. 25, p. 84.
Decaying wood.
1975. *H. serpula*, Scop. (*Trichia serpula*, Pers.) Reg. Rep. 24, p. 84.
Decaying wood.

708. PERICHÆNA, Fr.

1976. *P. irregularis*, B. and C. Reg. Rep. 30, p. 50.
Decaying wood and bark.
1977. *P. cæspitosa*, Pk. (*Physarum cæspitosum*, Pk.) Reg. Rep. 26, p. 75 :
ibid. 28, p. 85.
Decaying wood.

709. LYCOGALA, Mich.

1978. *L. epidendrum*, Bux. Reg. Rep. 22, p. 89.
Decaying wood.

710. PTYCHOGASTER, Cd.

1979. *P. albus*, Cd. Reg. Rep. 22, p. 90.
Decaying wood.

711. CYATHUS, Pers.

1980. *C. striatus*, Hoffm. Reg. Rep. 23, p. 54.
Decaying wood and sticks.
1981. *C. vernicosus*, DC. (*C. campanulatus*, Fr.) Reg. Rep. 22, p. 90.
Ground, manured places, etc.

712. CRUCIBULUM, Tul.

1982. *C. vulgare*, Tul. Reg. Rep. 22, p. 90.
Decaying wood.

713. SPHAEROBOLUS, Tode.

1983. *S. stellatus*, Tode.
Spent hops and decaying wood.

SUB-ORDER 3. CONIOMYCETES.

714. SACIDIUM, Nees.

1984. *S. Pini*, Fr. Reg. Rep. 31, p. 43.
Dead balsam-fir leaves.

715. PHOMA, Fr.

1985. *P. nebulosum*, Berk. Reg. Rep. 29, p. 47.
Dead stems of nettle.
1986. *P. Mariæ*, Clinton. Reg. Rep. 28, p. 55.
Living branches of *Lonicera Tatarica*.
1987. *P. lineolatum*, Desm. (*Phoma strobilima*, P. and C.) Reg. Rep. 30, p. 51.
Pine cones.
1988. *P. stercoraria*, P. and C. Reg. Rep. 30, p. 51.
Dung of geese.
1989. *P. longissimum*, Pers. Reg. Rep. 24, p. 99.
Dead stems of *Chenopodium album*.
1990. *P. Verbascicola*, Schw. (*Spharia verbascicola*.) Reg. Rep. 22, p. 100.
Dead stems of *Verbascum Thapsus*.
1991. *P. hysteriellum*, P. and C.
Dead stems of herbs.

716. PECKIA, Clinton.

1992. *P. Sarraceniae*, P. and C. Reg. Rep. 29, p. 47.
Dead stems of *Sarracenia purpurea*.
1993. *P. Clintonii*, Pk. Reg. Rep. 29, p. 47.
Dead leaves of *Smilacina trifolia*.

717. CRYPTOSPORIUM, Kunze.

1994. *C. Noveboracense*, B. and C. Reg. Rep. 29, p. 47.
Bark of *Abies balsamea*.

1995. **C. Scirpi**, Pk. Reg. Rep. 25, p. 84.

Leaves of *Scirpus*.

718. GELATINOSPORIUM, Pk.

1996. **G. betulinum**, Pk. Reg. Rep. 25, p. 84.

Dead branches of *Betula lenta*. Probably *Sphaeronema seri-*
tum, B. and C., is the same species.

1997. **G. abietinum**, Pk. Reg. Rep. 25, p. 84.

Dead branches of *Abies Canadensis*.

719. SPHÆRONEMA, Tode.

1998. **S. subtile**, Fr. Reg. Rep. 24, p. 85.

Decaying wood.

1999. **S. Robiniæ**, B. and C. Reg. Rep. 30, p. 51.

Dead twigs of *Tilia* and *Robinia*.

2000. **S. Fraxini**, Pk. Reg. Rep. 29, p. 71. (*S. spina*, B. and C. Reg. Rep.
23, p. 54.)

Dead branches of ash.

2001. **S. Persicæ**, Fr. (*Sphorocybe Persicæ*, Fr.) Reg. Rep. 23, p. 61.

Dead bark of cherry and peach trees.

720. SPHÆROPSIS, Lev.

2002. **S. quercina**, Pk. Reg. Rep. 25, p. 86.

Dead branches of oak.

2003. **S. Sumachi**, Schw. (*S. pulchella*, B. and C. Reg. Rep. 24, p. 86.
Sphaeria Sumachi, Schw.)

Dead branches of *Rhus glabra*.

2004. **S. Macluræ**, Cke.

Dead branches of Osage orange.

2005. **S. Menispermii**, Pk. Reg. Rep. 24, p. 86.

Dead stems of *Menispermum Canadense*.

2006. **S. Clintonii**, Pk. Reg. Rep. 28, p. 55.

Decorticated maple.

2007. **S. Wilsoni**, Clinton. (*S. punctum*, C. and E.) Reg. Rep. 28, p. 55.

Living stems of *Lonicera flava*.

2008. **S. Squieriæ**, Clinton. Reg. Rep. 28, p. 55.

Dead stems of *Aristolachia*.

2009. **S. Syringæ**, P. and C. Reg. Rep. 30, p. 52.

Dead twigs of *Syringa vulgaris*.

2010. **S. Pennsylvanica**, B. and C. Reg. Rep. 30, p. 51.

Dead twigs of ash.

2011. **S. Malorum**, Berk. Reg. Rep. 25, p. 85.

Decaying apples.

2012. **S. pulchrispora**, P. and C.

Dead stems of *Polygonum*.

721. DIPLODIA, Fr.

2013. **D. vulgaris**, Lev. Reg. Rep. 26, p. 76.

Decaying wood.

2014. **D. Herbarum**, Lev. Reg. Rep. 28, p. 56.

Dead stems of herbs.

2015. **D. Viticola**, Desm. Reg. Rep. 22, p. 90.

Dead stems of *Vitis*.

2016. **D. thuja**, P. and C. Reg. Rep. 30, p. 52.

Wood of *Thuja occidentalis*.

722. HENDERSONIA; Berk.

2017. **H. Mariæ**, Clinton. Reg. Rep. 28, p. 57.

Living stems of *Lonicera flava*.

2018. **H. Peckii**, Clinton. Reg. Rep. 28, p. 56.

Living stems of *Lonicera flava*.

2019. **H. Sarmentorum**, West. Reg. Rep. 28, p. 56.

Dead grape vines.

2020. **H. Desmazierii**, Mont. (*H. Platani*, Pk.) Reg. Rep. 25, p. 86.

Bark of *Platanus occidentalis*.

2021. **H. Coluteæ**, P. and C.

Twigs of *Colutea arborescens*.

723. VERMICULARIA, Tode.

2022. **V. dematium**, Fr. Reg. Rep. 24, p. 86.

Dead stems and leaves.

2023. **V. coptina**, Pk. Reg. Rep. 28, p. 58.

Dead or dying leaves of *Coptis trifolia*.

2024. **V. concentrica**, P. and C. Reg. Rep. 29, p. 47.

Languishing leaves of *Trillium*.

2025. **V. albomaculata**, Schw.

Leaves of *Smilax herbacea*.

2026. **V. Petiolorum**, Schw

Dead petioles.

2027. **V. trichella**, Grev. Reg. Rep. 31, p. 43.

Ivy leaves.

2028. **V. compacta**, C. and E.

Dead grape vine.

2029. **V. Balsamitæ**, Schw.Dead stems of *Impatiens*.2030. **V. Polygonati**, Schw.Dead stems of *Polygonatum*.

724. DISCOSIA, Lib.

2031. **D. artocreas**, Fr. Reg. Rep. 24, p. 86.

Dead leaves.

2032. **D. rugulosa**, B. and C. Reg. Rep. 29, p. 48.Dead leaves of *Carya alba*.

725. SEPTORIA, Fr.

2033. **S. Nabali**, B. and C. Reg. Rep. 24, p. 87.Leaves of *Nabalus*.2034. **S. Polygonorum**, Desm.Leaves of *Polygonum orientale*.2035. **S. Rhoidis**, B. and C. Reg. Rep. 28, p. 57.Leaves of *Rhus typhina*.2036. **S. Rubi**, West. (*S. Rubi*, B. and C.) Reg. Rep. 23, p. 54.Leaves of *Rubus strigosus*, *villosus*, etc.2037. **S. Liriodendri**, B. and C. Reg. Rep. 23, p. 54.Leaves of *Liriodendron Tulipifera*. I have seen no description of this species. The next following species appears also to

* have a mere catalogue or manuscript name.

2038. **S. Verbascicola**, B. and C. Reg. Rep. 28, p. 57.Leaves of *Verbascum Blattaria*.2039. **S. Lobeliæ**, Pk. Reg. Rep. 24, p. 87.Leaves of *Lobelia*.2040. **S. Verbenæ**, D. and R. Reg. Rep. 27, p. 101.Leaves of *Verbena hastata*.2041. **S. viride-tingens**, Curt. Reg. Rep. 23, p. 55.Leaves of *Allium tricoccum*.2042. **S. mirabilis**, Pk. Reg. Rep. 25, p. 87.Fronds of *Onoclea sensibilis*.

2043. *S. Wilsoni*, Clinton. Reg. Rep. 28, p. 57.
Leaves of *Chelone glabra*.
2044. *S. Scrophulariæ*, Pk. Reg. Rep. 28, p. 57.
Leaves of *Scrophularia nodosa*.
2045. *S. sambucini*, Pk. Reg. Rep. 28, p. 57.
Leaves of *Sambucus Canadensis*.
2046. *S. Coptidis*, B. and C.
Leaves of *Coptis trifolia*.
2047. *S. Polygalæ*, P. and C. Reg. Rep. 29, p. 48.
Leaves of *Polygala paucifolia*.
2048. *S. emaculata*, P. and C. Reg. Rep. 29, p. 48.
Leaves of *Lathyrus palustris*.
2049. *S. Erigerontis*, Pk. Reg. Rep. 24, p. 87.
Leaves of *Erigeron strigosum* and *annuum*.
2050. *S. Violæ*, West. Reg. Rep. 24, p. 87.
Leaves of *Viola cucullata*.
2051. *S. Dianthi*, Desm.
Leaves of *Dianthus barbatus*.
2052. *S. phlyctænoides*, B. and C. Reg. Rep. 24, p. 87.
Dead stems of herbs.
2053. *S. salicina*, Pk. Reg. Rep. 25, p. 87.
Leaves of *Populus balsamifera*.
2054. *S. Waldsteinia*, P. & C. Reg. Rep. 31, p. 43.
Leaves of *Waldsteinia fragarioides*.
2055. *S. Hippocastani*, B. and Br. Reg. Rep. 24, p. 87.
Leaves of horse-chestnut.
2056. *S. Toxicodendri*, Curt.
Leaves of *Rhus Toxicodendron*. This species does not appear to have been described.
2057. *S. Kalmicola*, Schw. (*Spheria Kalmicola*, Schw.) Reg. Rep. 23, p. 64.
Leaves of *Kalmia latifolia*.
2058. *S. Œnotheræ*, West.
Leaves of *Œnothera biennis*,
726. PHYLLOSTICTA, Pers.
2059. *P. cruenta*, Fr. (*Septoria cruenta*, Kze.) Reg. Rep. 22, p. 101.
Leaves of *Polygonatum* and *Smilacina*.
2060. *P. ochroleuca*, B. and C. (*Septoria ochroleuca*, B. and C.) Reg. Rep. 25, p. 88.
Leaves of chestnut.

727. EXCIPULA, Fr.

2061. **E. Equiseti**, Pk. Reg. Rep. 26, p. 77.
Dead *Equisetum hyemale*.

728. DINEMASPORIUM, Lev.

2062. **D. Herbarum**, Cke. Reg. Rep. 25, p. 88.
Dead stems of herbs.
2063. **D. acerinum**, Pk. Reg. Rep. 26, p. 77.
Maple wood.

729. ASTEROMA, DC.

2064. **A. Rosæ**, DC. Reg. Rep. 28, p. 58.
Leaves of *Rosa rubiginosa*.

730. MELANCONIUM, Lk.

2065. **M. disseminatum**, Fr. Reg. Rep. 28, p. 59.
Decaying wood.
2066. **M. minutissimum**, Schw. Reg. Rep. 28, p. 59.
Bark of *Platanus occidentalis*.
2067. **M. oblongum**, Berk. Reg. Rep. 28, p. 59.
Bark of *Juglans cinerea*.
2068. **M. intermedium**, P. and C. Reg. Rep. 30, p. 53.
Bark of *Carya alba*.
2069. **M. Americanum**, P. and C. Reg. Rep. 31, p. 43.
Dead leaves of *Agave Americana*.

731. STILBOSPORA, Pers.

2070. **S. ovata**, Pers. Reg. Rep. 22, p. 90.
Dead branches.
2071. **S. Staphyleæ**, Schw. Reg. Rep. 25, p. 88.
Dead branches of *Staphylea trifolia*.

732. EXOSPORIUM, Lk.

2072. **E. Tiliæ**, Lk. (*Coryneum claviesporium*, Pk.) Reg. Rep. 24, p. 87.
Dead branches of *Tilia Americana*.

733. CORYNEUM, Kze.

2073. **C. disciforme**, Kze. Reg. Rep. 23, p. 59.
Dead branches.

2074. **C. triseptatum**, Pk. Reg. Rep. 27, p. 102.
Dead leaves of *Rhododendron maximum*.

734. CHEIROSPORA, Fr.

2075. **C. botryospora**, Fr. Reg. Rep. 25, p. 88.
Dead branches.

735. MYXOSPORIUM, Lk.

2076. **M. nitidum**, B. and C. Reg. Rep. 22, p. 90.
Dead branches of *Cornus*.

736. PESTALOZZIA, DeNot.

2077. **P. Guepini**, Desm.
Leaves of *Camellia Japonica*.

2078. **P. Mariæ**, Clinton. Reg. Rep. 27, p. 102.
Leaves of *Rhododendron maximum*.

2079. **P. monochæta**, Desm. (*P. Peckii*, Clinton.) Reg. Rep. 28, p. 59.
Dead and persistent oak leaves.

737. TORULA, Cd.

2080. **T. alnea**, Pk. Reg. Rep. 25, p. 89.
Dead trunks of *Alnus incana*.

738. TRIMMATOSTROMA, Cd.

2081. **T. Americanum**, Thum. (*Coniothecium toruloides*, B. and C.) Reg.
Rep. 23, p. 55.
Dead willow branches.

739. SEPTONEMA, Cd.

2082. **S. spilomeum**, Berk. Reg. Rep. 22, p. 91.
Old rails and decaying wood.

2083. **S. dichænoides**, P. & C. Reg. Rep. 30, p. 53.
Bark of alder.

740. BACTRIDIDIUM, Kze.

2084. **B. flavum**, Kze. Reg. Rep. 26, p. 77.
Wet decaying wood.

741. SPORIDESMIUM, Lk.

2085. **S. concinnum**, B. & C. Reg. Rep. 27, p. 103: *ibid*, 29, p. 50.
Decaying wood.

2086. *S. moriforme*, Pk. Reg. Rep. 25, p. 89.
Decaying wood of apple trees.
2087. *S. lepraria*, B. & Br. Reg. Rep. 28, p. 60.
Decaying wood.

742. PHRAGMIDIUM, Lk.

2088. *P. obtusum*, K. & S. (*Aregma obtusatum*, Fr.) Reg. Rep. 24, p. 90.
Living leaves of *Potentilla Canadensis*.
2089. *P. Rosarum*, Rabh. (*Aregma mucronatum*, Fr.) Reg. Rep. 23, p. 55.
Living leaves of Roses.
2090. *P. gracile*, Grev. Reg. Rep. 29, p. 50.
Living leaves of *Rubus odoratus*.

743. TRIPHYRAGMIUM, Lk.

2091. *T. clavellosum*, Berk. Reg. Rep. 23, p. 55.
Living leaves of *Aralia nudicaulis*.

744. PUCCINIA, Pers.

2092. *P. solida*, Schw. Reg. Rep. 22, p. 91 : ibid. 25, p. 118.
Living leaves of *Anemone cylindrica*.
2093. *P. fusca*, Schrot. (*P. Anemones*, Pers.) Reg. Rep. 23, p. 56 : ibid. 25, p. 116.
Living leaves of *Anemone nemorosa*.
2094. *P. Calthæ*, Lk. Reg. Rep. 29, p. 50.
Living leaves of *Caltha palustris*.
2095. *P. aculeata*, Schw. Reg. Rep. 22, p. 91 : ibid. 25, p. 113.
Living leaves of *Podophyllum peltatum*.
2096. *P. Violarum*, Lk. Reg. Rep. 23, p. 56 : ibid. 25, p. 112.
Living leaves of violets.
2097. *P. Lychnidearum*, Lk. Reg. Rep. 25, p. 110.
Living leaves of *Dianthus barbatus*.
2098. *P. Mariæ-Wilsoni*, Clinton. Reg. Rep. 25, p. 114.
Living leaves of *Claytonia Caroliniana* and *C. Virginica*.
2099. *P. Noli-tangeris*, Cd. Reg. Rep. 24, p. 90 : ibid. 25, p. 114.
Living leaves of *Impatiens* and *Dalibarda*.
2100. *P. Pyrolæ*, Cke. Reg. Rep. 24, p. 90 : ibid. 25, p. 119.
Living leaves of *Polygala paucifolia*.
2101. *P. Prunorum*, Lk. Reg. Rep. 25, p. 116.
Living leaves of *Prunus serotina*.

2102. *P. Waldsteiniae*, Curt. Reg. Rep. 22, p. 91 : ibid. 25, p. 120.
Living leaves of *Waldsteinia fragarioides*.
2103. *P. spreta*, Pk. Reg. Rep. 29, p. 67. (*P. Tiarella*, B. and C. Reg. Rep. 25, p. 115.)
Living leaves of *Tiarella cordifolia* and *Mitella nuda*.
2104. *P. Circææ*, Pers. Reg. Rep. 23, p. 56 : ibid. 25, p. 118.
Living leaves of *Circæa Lutetiana*.
2105. *P. obtegens*, Tul. (*P. Compositarum*, Sch.) Reg. Rep. 23, p. 56 : ibid. 25, p. 113. (*Trichobasis suaveolens*, Pers.) Reg. Rep. 24, p. 89.
Living leaves of *Cirsium arvense*.
2106. *P. Cirsii*, Lasch.
Living leaves of *Cirsium lanceolatum*.
2107. *P. Galiorum*, Lk. Reg. Rep. 24, p. 90 : ibid. 25, p. 116.
Living leaves of *Galium asprellum* and *G. triflorum*.
2108. *P. Umbelliferarum*, DC. Reg. Rep. 23, p. 56 : ibid. 25, p. 112.
Living leaves of *Pimpinella integerrima*.
2109. *P. Cryptotæniæ*, Pk. Reg. Rep. 23, p. 56 : ibid. 25, p. 114
Living leaves of *Cryptotenia Canadensis*.
2110. *P. Osmorrhizæ*, C. and P. Reg. Rep. 29, p. 73. (*P. Myrrhis*, Schw. Reg. Rep. 25, p. 112, *Uredo cherophylli*, Schw. 23, p. 57.)
Living leaves of *Osmorrhiza brevistylis*, etc.
2111. *P. porphyrogenita*, Curt. Reg. Rep. 29, p. 73. (*P. acuminata*, Pk. Reg. Rep. 23, p. 57 : ibid. 75, p. 119.)
Living leaves of *Cornus Canadensis*.
2112. *P. Asteris*, Schw. Reg. Rep. 23, p. 56 : ibid. 25, p. 118.
Living leaves of asters.
2113. *P. Xanthii*, Schw. Reg. Rep. 23, p. 56 : ibid. 25, p. 117.
Living leaves of *Xanthium strumarium*.
2114. *P. Helianthi*, Schw. Reg. Rep. 23, p. 56 : ibid. 25, p. 116. (*P. Helianthorum*, Schw.)
Living leaves of *Helianthus*.
2115. *P. variabilis*, Grev. Reg. Rep. 25, p. 112.
Living leaves of *Taraxacum Dens-leonis*.
2116. *P. investita*, Schw. Reg. Rep. 22, p. 91 : ibid. 25, p. 117.
Living leaves of *Gnaphalium decurrens*.
2117. *P. orbicula*, P. and C. Reg. Rep. 30, p. 53.
Living leaves of *Nabalus*.

2118. **P. Menthæ**, Pers. Reg. Rep. 25, p. 115. (*Trichobasis Labiatarum*,
Lev. Reg. Rep. 24, p. 89.)
Living leaves of mints.
2119. **P. Gentianæ**, Strauss. Reg. Rep. 29, p. 50.
Living leaves of *Gentiana Andrewsii*.
2120. **P. Hydrophylli**, P. and C. Reg. Rep. 30, p. 54.
Living leaves of *Hydrophyllum Virginicum*.
2121. **P. Veratri**, Niessl. Reg. Rep. 27, p. 103.
Living leaves of *Veratrum viride*.
2122. **P. Convolvuli**, Cast. Reg. Rep. 24, p. 90 : ibid. 25, p. 120.
Living leaves of *Convolvulus Sepium*.
2123. **P. Clintonii**, Pk. Reg. Rep. 28, p. 61.
Living leaves of *Pedicularis Canadensis*.
2124. **P. Dayii**, Clinton. Reg. Rep. 28, p. 60.
Living leaves of *Lysimachia ciliata*.
2125. **P. Physostegiæ**, P. & C. Reg. Rep. 29, p. 50.
Living leaves of *Physostegia Virginiana*.
2126. **P. Amphibii**, Fekl. Reg. Rep. 30, p. 75. (*P. Polygonorum*, Lk. Reg.
Rep. 24, p. 90.)
Living leaves of *Polygonum amphibium*.
2127. **P. Maydis**, Patsch. (*P. Sorghi*, Schw.) Reg. Rep. 28, p. 61.
Living leaves of *Zea Mays*.
2128. **P. angustata**, Pk. Reg. Rep. 25, p. 123.
Living leaves of *Scirpus Eriophorum*.
2129. **P. coronata**, Cd. Reg. Rep. 23, p. 56: ibid. 25, p. 121.
Living leaves of *Avena sativa*.
2130. **P. arundinacea**, Hedw. Reg. Rep. 25, p. 122. (*P. arundinaria*, Schw.)
Living leaves of *Phragmites communis*.
2131. **P. obtecta**, Pk. Reg. Rep. 25, p. 121.
Living leaves of *Scirpus validus*.
2132. **P. Ellisii**, Thum. (*P. Andropogi*, Schw.)
Living leaves of *Andropogon scoparius*.
2133. **P. caricina**, Dee. (*P. caricis*, DC.) Reg. Rep. 25, p. 122.
Living leaves of Carices.
2134. **P. striola**, Lk. Reg. Rep. 25, p. 122.
Living leaves of sedges.
2135. **P. graminis**, Pers. Reg. Rep. 25, p. 121.
Living leaves of grasses.

745. GYMNOSPORANGIUM, Lk.

2136. *G. fuscum*, var. *globosum*, Far. ' (*Podisoma fuscum*, Duby.) Reg. Rep. 25, p. 89.
Galls of *Juniperus Virginiana*.

746. USTILAGO, Lk.

2137. *U. Carbo*, Tul. Reg. Rep. 29, p. 75. (*U. segetum*, Dittm. Reg. Rep. 22, p. 92.)
Spikes of wheat.
2138. *U. Maydis*, Cd. Reg. Rep. 22, p. 92. (*U. Zeæ*, Schw.)
Flowers and fruit of *Zea Mays*.
2139. *U. utriculosa*, Tul. Reg. Rep. 22, p. 93: *ibid.* 27, p. 111.
Spikes of *Polygonum Pennsylvanicum*.
2140. *U. Erythronii*, Clinton. Reg. Rep. 27, p. 115.
Living leaves of *Erythronium Americanum*.

747. UROCYSTIS, Rabh.

2141. *U. pompholygodes*, Schl. Reg. Rep. 30, p. 77. (*Polycystis Ranunculacearum*, Desm. Reg. Rep. 23, p. 58.)
Living leaves of *Trollius*, *Hepatica* and *Anemone*.

748. UROMYCES, Lev.

2142. *U. Lespedezæ*, Schw. (*Puccinia Lespedezæ violaceæ*, Schw.) Reg. Rep. 22, p. 92.
Living leaves of *Lespedeza*.
2143. *U. Junci*, Schw. (*Puccinia Junci*, Schw.) Reg. Rep. 22, p. 91.
Living *Juncus effusus* and *J. tenuis*.
2144. *U. Peltandraæ*, Howe. Reg. Rep. 29, p. 67.
Living leaves of *Peltandra* and *Arisæma*.
2145. *U. pyriformis*, Cke. Reg. Rep. 26, p. 77: *ibid.* 29, p. 69.
Living leaves of *Acorus Calamus*.
2146. *U. Sparganii*, C. and P. Reg. Rep. 26, p. 77.
Living leaves of *Sparganium*.
2147. *U. Euphorbiæ*, C. and P. Reg. Rep. 25, p. 90.
Living leaves of *Euphorbia maculata* and *E. hypericifolia*.
2148. *U. triquetra*, Cke. Reg. Rep. 25, p. 90. (*Puccinia Hyperici*, Schw. Reg. Rep. 22, p. 92.)
Living leaves of *Hypericum mutilum*.

2149. *U. solida*, B. and C. Reg. Rep. 24, p. 90.
Living leaves of *Desmodium*.
2150. *U. Polygoni*, Fckl. Reg. Rep. 24, p. 89.
Living stems of *Polygonum*.
2151. *U. Howei*, Pk. Reg. Rep. 30, p. 75. (*Trichobasis Howei*, Pk. Reg. Rep. 23, p. 58; *U. Asclepiadis*, Cke.)
Living leaves of *Asclepias Cornuti*.
2152. *U. Trifolii*, Fckl. Reg. Rep. 31, p. 43.
Living leaves of *Medicago lupulina*.
2153. *U. polymorphus*, P. and C. Reg. Rep. 31, p. 43.
Living leaves of *Lathyrus ochroleucus*.
2154. *U. Lili*, Clinton. Reg. Rep. 27, p. 103.
Living leaves of *Lilium Canadense*.

749. PILEOLARIA, Cast.

2155. *P. brevipes*, B. and C. Reg. Rep. 24, p. 90.
Living leaves of *Rhus Toxicodendron*.

750. MELAMPSORA, Cast.

2156. *M. Hartigii*, Thum. (*Uredo epitea*, Kze.) Reg. Rep. 22, p. 91.
Leaves of *Salix nigra*.
2157. *M. populina*, Lev. (*Lecythea cylindrica*, Strauss.) Reg. Rep. 23, p. 58.
Leaves of *Populus*.

751. COLEOSPORIUM, Lev.

2158. *C. ochraceum*, Bon. Reg. Rep. 29, p. 51 (*Uredo Agrimoniae*, Schw.)
Living leaves of *Agrimonia Eupatoria*.
2159. *C. miniatum*, Bon. (*Uredo effusa*, Strauss, Reg. Rep. 22, p. 92. *U. miniata*, Pers.)
Living leaves and stems of roses.

752. UREDO, Pers.

2160. *U. pustulata*, Pers. Reg. Rep. 23, p. 57.
Living leaves of *Epilobium*.
2161. *U. luminata*, Schw. Reg. Rep. 22, p. 92. (*Aecidium luminatum*, Schw.)
Living leaves of *Rubus*.
2162. *U. Peckii*, Thum. (*U. acidiodides*, Pk.) Reg. Rep. 24, p. 88.
Living leaves and stems of *Amphicarpea monoica*.
2163. *U. Solidaginis*, Schw. Reg. Rep. 22, p. 91.
Living leaves and stems of *Solidago* and *Aster*.

2164. **U. Helianthi**, Schw. Reg. Rep. 24, p. 88.
Living leaves and stems of *Helianthus*.
2165. **U. Smilacis**, Schw. Reg. Rep. 27, p. 104.
Living leaves and stems of *Lilium Canadense*.
2166. **U. Cassandræ**, P. and C. Reg. Rep. 30, p. 54.
Living leaves and stems of *Cassandra calyculata*.
2167. **U. pyrolata**, Kornk. (*Uredo Pyrolæ*, Strauss. Reg. Rep. 22, p. 92.)
Æcidium pyrolatum, Schw.)
Living leaves and stems of *Pyrola rotundi folia*.

753. PROTOMYCES, Ung.

2168. **P. Menyanthis**, DeBy. Reg. Rep. 28, p. 61.
Leaves of *Menyanthes trifoliata*.

754. CRONARTIUM, Tul.

2169. **C. Comandræ**, Pk.
Living leaves and stems of *Comandra*.

755. GRAPHIOLA, Poit.

2170. **G. Phœnicis**, Poit. Reg. Rep. 29, p. 51.
Leaves of *Phœnix dissectifolia* in conservatories.

SUB-ORDER 4. HYPHOMYCETES.

756. CERATIUM, A. and S.

2171. **C. hydroides**, A. and S. Reg. Rep. 26, p. 78.
Decaying wood.

757. SCORIAS, Fr.

2172. **S. spongiosa**, Fr.
Leaves and sticks under beeches and alders. This fungus occurs on whatever may chance to be moistened by the excretions of the woolly insects that infest beech and alder trees. I have seen it nowhere else. It is sometimes accompanied by some *Capnodium*, of which, I suspect, it is a condition.

758. ISARIA, Fr.

2173. **I. favinosa**, Fr.
Ground.
2174. **I. clavata**, Dittm.
Decaying wood.

759. STILBUM, Tode.

2175. *S. giganteum*, Pk. Reg. Rep. 24, p. 93.
Dead maple trunks and logs.
2176. *S. pellucidum*, Schrad. Reg. Rep. 24, p. 93.
Decaying wood.
2177. *S. smaragdinum*, A. and S. Reg. Rep. 29, p. 51.
Decaying wood.
2178. *S. Rhoidis*, B. and C. Reg. Rep. 24, p. 93.
Dead *Rhus typhina*.
2179. *S. erythrocephalum*, Dittm.
Horse dung.

760. FUSARIUM, Lk.

2180. *F. lateritium*, Nees. Reg. Rep. 25, p. 92.
Bark of *Dirca palustris*.
2181. *F. erubescens*, B and C. Reg. Rep. 24, p. 93.
Dead branches of *Tilia Americana*.

761. EPICOCCUM, Lk.

2182. *E. neglectum*, Desm. Reg. Rep. 29, p. 51.
Stems and leaves of *Zea Mays*.

762. ILLOSPORIUM, Mart.

2183. *I. roseum*, Fr. Reg. Rep. 25, p. 93.
Lichens.
2184. *I. carneum*, Fr. Reg. Rep. 23, p. 61.
On *Peltigera*.

763. ÆGERITA, Pers.

2185. *Æ. candida*, Pers. Reg. Rep. 29, p. 51.
Decaying wood.

764. SPOROCYBE, Fr.

2186. *S. byssoides*, Fr. Reg. Rep. 25, p. 93.
Dead stems of herbs.

765. TUBERCULARIA, Tode.

2187. *T. Celastri*, Schw. Reg. Rep. 26, p. 84.
Dead stems of *Celastrus scandens*.

2188. **T. subdiaphana**, Schw.

Dead stems of grape vine.

766. PERICONIA, Cd.

2189. **P. calicioides**, Fr. Reg. Rep. 22, p. 94.

Decaying wood. The name *Periconia* is applied by some authors to such species as have the stem composed of several compacted filaments, and the name *Sporocybe*, to such as have the stem formed of a single or simple filament. Other authors just reverse the application of these generic names, and therefore much confusion in their use is the result.

767. PODOSPORIUM, Schw.

2190. **P. rigidum**, Schw. Reg. Rep. 22, p. 94 : ibid. 24, p. 103.

Dead branches.

768. MACROSPORIUM, Fr.

2191. **M. Cheiranthi**, Fr. Reg. Rep. 23, p. 61.

Dead leaves and stems.

2192. **M. Sarcinula**, Berk. Reg. Rep. 30, p. 55.

Decaying squashes.

2193. **M. chartarum**, Pk. Reg. Rep. 25, p. 93.

Wall paper.

769. CLASTERISPORIUM, Schw.

2194. **C. uncinatum**, Clinton. Reg. Rep. 29, p. 50.

Fallen oak leaves.

770. HELMINTHOSPORIUM, Lk.

2195. **H. macrocarpum**, Grev. Reg. Rep. 22, p. 94.

Dead branches of oak and chestnut.

2196. **H. episphaericum**, C. and P. Reg. Rep. 29, p. 52.

Effete *Diatrype*.

2197. **H. obovatum**, Berk. (*Monotospora biseptata*, Pk. Reg. Rep. 28, p. 62).

Decaying wood.

771. CLADOSPORIUM, Lk.

2198. **C. herbarum**, Lk. Reg. Rep. 22, p. 94.

Dead stems, decaying fungi, etc.

2199. *C. epiphyllum*, Nees. Reg. Rep. 25, p. 94.

Dead leaves.

2200. *C. Typhæ*, Schw. Reg. Rep. 27, p. 105.

Dead leaves of *Typha*.

2201. *C. lignicola*, Cd. Reg. Rep. 27, p. 105.

Wood.

2202. *C. depressum*, B. and Br. Reg. Rep. 30, p. 54.

Living leaves of *Archangelica atropurpurea*. In the American specimens the filaments are longer than in the typical form, but the difference scarcely seems of specific value.

772. STREPTOTHRIX, Cd.

2203. *S. atra*, B. and C. Reg. Rep. 23, p. 61.

Dead branches of *Carpinus*, etc.

773. POLYTHRINCIUM, Kze.

2204. *P. Trifolii*, Kze. Reg. Rep. 22, p. 94.

Living leaves of clover.

774. ASPERGILLUS, Mich.

2205. *A. glaucus*, Lk. Reg. Rep. 26, p. 79.

Decaying fungi.

775. PERONOSPORA, DeBy.

2206. *P. parasitica*, Pers. Reg. Rep. 26, p. 79.

Living leaves of *Cardamine rhomboidea*.

2207. *P. effusa*, Grev. Reg. Rep. 29, p. 52.

Living leaves of *Chenopodium album*.

2208. *P. Corydalis*, DeBy.

Living leaves of *Dicentra (Diclytra) Canadensis*.

776. RAMULARIA, Ung.

2209. *R. Nemopanthis*, C. and P. Reg. Rep. 29, p. 52.

Living leaves of *Nemophantes Canadensis*.

2210. *R. obovata*, Fckl. (*Peronospora obliqua*, Cke. Reg. Rep. 28, p. 63,

Ovularia obovata, Sacc.)

Living leaves of *Rumex crispus*.

777. CYSTOPUS, DeBy.

2211. *C. cubicus*, Str. Reg. Rep. 25, p. 91.

Living leaves of *Tragopogon* and *Ambrosia*.

2212. *C. candidus*, Lev. Reg. Rep. 22, p. 93 : ibid. 24, p. 103.
Living leaves of cruciferous plants.
2213. *C. spinulosus*, DeBy. Reg. Rep. 29, p. 51.
Living leaves of *Cirsium arvense*.
2214. *C. Portulacæ*, DC. Reg. Rep. 29, p. 51.
Living leaves of *Portulaca oleracea*.
2215. *C. Bliti*, Biv. (*C. Amaranti*, Schw. Reg. Rep. 28, p. 61.)
Living leaves of *Amarantus retroflexus*.

778. CERCOSPORA, Fres.

2216. *C. Callæ*, P. and C. Reg. Rep. 29, p. 52.
Living leaves of *Calla palustris*.

779. HELICOSPORIUM, Nees.

2217. *H. ellipticum*, Pk. Reg. Rep. 27, p. 103.
Decaying hemlock wood.

780. TRICHODERMA, Pers.

2218. *T. viride*, Pers. Reg. Rep. 30, p. 87.
Decaying wood.

781. VERTICILLIUM, Nees.

2219. *V. pulvereum*, P. and C. Reg. Rep. 30, p. 56.
Decaying wood.
2220. *V. lateritium*, Ehrh.
Decaying wood.

782. POLYACTIS, Lk.

2221. *P. fascicularis*, Cd. Reg. Rep. 26, p. 79.
Dead stems of herbs.
2222. *P. cana*, Berk. Reg. Rep. 30, p. 57.
Dead stems and leaves.

783. SEPEDONIUM, Lk.

2223. *S. chrysospermum*, Lk. Reg. Rep. 24, p. 94.
Decaying *Boleti*.

784. FUSISPORIUM, Lk.

2224. *F. Buxi*, Fr. Reg. Rep. 23, p. 61.
Dead leaves of *Buxus sempervirens*.

2225. *F. rimosum*, Pk. Reg. Rep. 30, p. 58.
Cut surface of corn stalks.

785. PILACRE, Fr.

2226. *P. faginea*, B. and Br. Reg. Rep. 26, p. 79.
Decaying beech wood.

SUB-ORDER 5. PHYCOMYCETES.

786. MUCOR, Mich.

2227. *M. inæqualis*, Pk. Reg. Rep. 26, p. 79.
Decaying squashes and pumpkins.
2228. *M. stolonifer*, Ehrh. (*Ascophora Mucedo*, Tode. Reg. Rep. 25, p. 94.)
Decaying vegetable substances.

787. PILOBOLUS, Tode.

2229. *P. crystallinus*, Tode. Reg. Rep. 27, p. 106.
Horse dung.

788. EMPUSA, Cohn.

2230. *E. Muscæ*, Cohn. (*Sporendonema Muscæ*, Fr.)
Dead flies, (*Muscæ domestica*.)

SUB-ORDER 6. ASCOMYCETES.

789. ONYGENA, Pers.

2231. *O. equina*, Pers. Reg. Rep. 25, p. 94.
Old hoofs and horns.

790. SPHÆROTHECA, Lev.

2232. *S. Castagnei*, Lev. Reg. Rep. 25, p. 94.
Living leaves of various plants.

791. PHYLLACTINIA, Lev.

2233. *P. suffulta*, Reb. (*P. guttata*, Lev., Reg. Rep. 29, p. 79.)
Living leaves of various trees and shrubs, rarely on herbs.

792. UNCINULA, Lev.

2234. *U. adunca*, Lev. Reg. Rep. 23, p. 65.
Living leaves of willows.

2235. *U. macrospora*, Pk. Reg. Rep. 25, p. 96.
Living leaves of elm.
2236. *U. flexuosa*, Pk. Reg. Rep. 26, p. 80.
Living leaves of horse-chestnut.
2237. *U. Clintonii*, Pk. Reg. Rep. 25, p. 96.
Living leaves of basswood.
2238. *U. circinata*, C. and P. Reg. Rep. 25, p. 96.
Living leaves of maple.
2239. *U. Ampelopsidis*, Pk. (*U. subfusca*, B. and C.) Reg. Rep. 26, p. 80.
Living leaves of Virginia creeper.
2240. *U. spiralis*, B. and C. (*U. Americana*, Howe.) Reg. Rep. 26, p. 80.
Living leaves of grape vines.

793. PODOSPHÆRIA, Kze.

2241. *P. Kunzei*, Lev. (*P. Cerasi*, Lev., Reg. Rep. 24, p. 100.)
Living leaves of cherry and thorn.

794. MICROSPHÆRIA, Lev.

2242. *M. Hedwigii*, Lev. Reg. Rep. 25, p. 95.
Living leaves of *Viburnum*. *Erysiphe Viburni*, Schw., is probably the same species.
2243. *M. Van Bruntiana*, Ger. Reg. Rep. 28, p. 64.
Living leaves of *Sambucus Canadensis*. I have never been able to find more than four spores in an ascus in this fungus, and it is doubtful whether this form is specifically distinct from *M. Hedwigii*, although the tips of the appendages are generally more fully developed and have more numerous bifurcations than in that species.
2244. *M. penicillata*, Lev. Reg. Rep. 22, p. 100.
Living leaves of beech, birch and hazel.
2245. *M. Friesii*, Lev. Reg. Rep. 23, p. 65.
Living leaves of lilac.
2246. *M. Russellii*, Clinton. Reg. Rep. 26, p. 80.
Living leaves of *Oxalis stricta*.
2247. *M. abbreviata*, Pk. Reg. Rep. 28, p. 64.
Dead oak leaves.
2248. *M. densissima*, Schw. Reg. Rep. 26, p. 80.
Dead oak leaves.
2249. *M. Dubyi*, Lev. Reg. Rep. 26, p. 80.
Living leaves of *Lonicera*.

2250. **M. holosericea**, Lev. Reg. Rep. 25, p. 95.
Living leaves of *Astragalus Cooperi*.

2251. **M. Vaccinii**, C. and P. Reg. Rep. 23, p. 65.
Living leaves of *Vaccinium*.

2252. **M. extensa**, C. and P. Reg. Rep. 25, p. 95.
Living leaves of *Quercus*.

2253. **M. diffusa**, C. and P. Reg. Rep. 25, p. 95.
Living leaves of *Desmodium*.

795. ERYSIPHE, Hedw.

2254. **E. lamprocarpa**, Lev. Reg. Rep. 23, p. 65.
Living leaves of various plants.

2255. **E. Martii**, Lk. Reg. Rep. 25, p. 96.
Living leaves of *Leguminosæ*.

2256. **E. communis**, Schl. Reg. Rep. 22, p. 101.
Living leaves of *Ranunculaceæ*.

796. MORCHELLA, Dill.

2257. **M. esculenta**, Pers. Reg. Rep. 22, p. 44 : ibid. 28, p. 86.
Under evergreen trees.

2258. **M. semilibera**, DC. Reg. Rep. 30, p. 58.
Open woods.

797. GYROMITRA, Fr.

2259. **G. curtipes**, Fr.
Borders of woods.

798. HELVELLA, L.

2260. **H. crispa**, Fr. Reg. Rep. 24, p. 94.
Woods.

2261. **H. gracilis**, Pk. Reg. Rep. 24, p. 94.
Wet mossy places.

799. VERPA, Swartz.

2262. **V. digitaliformis**, Pers. Reg. Rep. 30, p. 59.
Open woods.

800. MITRULA, Fr.

2263. **M. paludosa**, Fr. Reg. Rep. 23, p. 62.
Sticks and leaves in wet places.

801. SPATHULARIA, Pers.

2264. *S. flavida*, Pers. Reg. Rep. 22, p. 87: *ibid.* 28, p. 87.
Woods.

802. LEOTIA, Hill.

2265. *L. lubrica*, Pers. Reg. Rep. 23, p. 62.
Thin woods.

803. CUDONIA, Fr.

2266. *C. lutea*, Pk. (*Vibrissea lutea*, Pk. Reg. Rep. 25, p. 97.)
Dense woods.

804. GEOGLOSSUM, Pers.

2267. *G. luteum*, Pk. (*Mitrula lutescens*, B. & C.) Reg. Rep. 24, p. 94.
Mossy places in woods.
2268. *G. Peckianum*, Cke. Reg. Rep. 28, p. 87. (*G. viscosum*, Pers. Reg. Rep. 25, p. 97.)
Swampy woods.
2269. *G. velutipes*, Pk. Reg. Rep. 28, p. 65.
Woods.

805. PEZIZA, L.

§ 1. MACROPODES.

2270. *P. Macropus*, Pers. Reg. Rep. 22, p. 94.
Woods and open places.
2271. *P. hesperidea*, C. and P. Reg. Rep. 26, p. 80.
Woods and on buried sticks.
2272. *P. Warnei*, Pk. (*Rhizina Helvetica*, Fckl.) Reg. Rep. 30, p. 59.
Decaying hemlock wood.

§ 2. COCHLEATÆ.

2273. *P. badia*, Pers. Reg. Rep. 25, p. 98.
Damp ground and shaded banks.
2274. *P. cochleata*, Huds. Reg. Rep. 23, p. 62.
Ground in stoves.
2275. *P. aurantia*, Vahl. Reg. Rep. 23, p. 62: *ibid.* 24, p. 103.
Ground.

§ 3. CUPULARES.

2276. *P. repanda*, Wahl. Reg. Rep. 28, p. 65.
Ground and mossy trunks.

2277. *P. pallidula*, C. and P. Reg. Rep. 28, p. 65.
Decaying wood.

§ 4. *HUMARIA*.

2278. *P. adusta*, C. and P. Reg. Rep. 27, p. 107.
Burnt ground.

2279. *P. omphalodes*, Bull. Reg. Rep. 28, p. 65.
Burnt ground.

§ 5. *SARCOSCYPHÆ*.

2280. *P. coccinea*, Jacq. Reg. Rep. 23, p. 62.
Half buried sticks.

2281. *P. scutellata*, L. Reg. Rep. 22, p. 94.
Soft decaying wood and wet ground.

2282. *P. erinaceus*, Schw. Reg. Rep. 24, p. 95.
Decaying wood.

2283. *P. hemispherica*, Wigg. Reg. Rep. 24, p. 95.
Decaying wood and mossy ground.

2284. *P. theleboloides*, A. and S. Reg. Rep. 26, p. 81.
Spent hops in a stove.

2285. *P. stercorea*, Pers. Reg. Rep. 25 p. 98.
Cow dung.

2286. *P. allospadicea*, Grev. Reg. Rep. 29, p. 54.
Mossy ground.

2287. *P. floccosa*, Schw. Reg. Rep. 23, p. 62.
Decaying wood and sticks.

§ 6. *DASYSCYPHÆ*.

2288. *P. calycina*, Schw. Reg. Rep. 22, p. 94.
Bark of acerose trees.

2289. *P. Agassizii*, B. and C. Reg. Rep. 22, p. 95.
Bark of *Abies balsamea*.

2290. *P. subochracea*, C. and P. Reg. Rep. 26 p. 81.
Dead *Rubus odoratus*.

2291. *P. nivea*, Fr. Reg. Rep. 25, p. 99.
Decaying oak.

2292. *P. virginea*, Batsch. Reg. Rep. 23, p. 62.
Decaying wood and stems.

2293. *P. vulpina*, Cke. Reg. Rep. 30, p. 60.
Decaying wood.

2294. **P. maculincola**, Schw. Reg. Rep. 30, p. 60.

Decaying wood. Some authors regard this as identical with *P. flammca*, A. and S., but as the specimens in the Schweinitzian Herbarium indicate some differences I have not united the two forms.

2295. **P. hyalina**, Pers. Reg. Rep. 28, p. 66.

Decaying wood.

2296. **P. translucida**, B. and C. Reg. Rep. 22, p. 95.

Decaying wood.

2297. **P. Tiliaë**, Pk. Reg. Rep. 24, p. 96.

Dead branches of basswood.

§ 7. *TAPESIA*.

2298. **P. sanguinea**, Pers. (*Patellaria sanguinea*, Karst.)

Decaying wood.

§ 8. *HYMENOSCYPHÆ*.

2299. **P. Persoonii**, Mong. Reg. Rep. 24, p. 96. (*Stamnaria Persooni*, Fckl.)

Dead stems of *Equisetum hiemale*.

2300. **P. cyathoidea**, Bull. Reg. Rep. 22, p. 95.

Dead herb stems.

2301. **P. albumina**, C. and P. Reg. Rep. 26, p. 81.

Decaying wood and stems.

§ 9. *DURELLA*.

2302. **P. macrospora**, Fckl. Reg. Rep. 30, p. 61. (*D. compressa*, A. and S.

Reg. Rep. 22, p. 95.)

Decaying wood.

2303. **P. flexella**, Fr. Reg. Rep. 22, p. 95.

Decaying wood. This is referred to lichens by some authors.

§ 10. *MOLLISIA*.

2304. **P. vinosa**, A. and S. Reg. Rep. 24, p. 95.

Decaying wood.

2305. **P. cinerea**, Batsch. Reg. Rep. 28, p. 86.

Decaying wood.

2306. **P. assimilis**, C. and P. Reg. Rep. 26, p. 81.

Dead herb stems.

2307. **P. planodisca**, P. and C. Reg. Rep. 31, p. 46.

Dead Stems of *Andropogon*.

2308. **P. Dehnii**, Rabh. Reg. Rep. 26, p. 81.

Living stems of *Potentilla argentea*.

2309. **P. Sphærella**, P. and C.Dead stems of *Trifolium pratense*.806. **HELOTIUM**, Fr.2310. **H. aciculare**, Fr. Reg. Rep. 27, p. 107.

Half buried wood.

2311. **H. æruginosum**, Fr. (*Peziza æruginosa*, Fr. Reg. Rep. 24, p. 95.)Decaying wood. This species and the next are by some deemed generically distinct, and referred to a genus *Chlorosplenium*.2312. **H. versiforme**, Fr. (*Craterellus cæspitosus*, Pk. Reg. Rep. 25, p. 82.)

Decaying wood.

2313. **H. rugipes**, Pk. Reg. Rep. 26, p. 82.

Decaying wood.

2314. **H. citrinum**, Fr. Reg. Rep. 22, p. 95.

Decaying wood.

2315. **H. salicellum**, Fr. Reg. Rep. 28, p. 67.

Dead willow twigs.

2316. **H. Herbarum**, Fr. (*Peziza Herbarum*, Fr. Reg. Rep. 22, p. 95.)

Dead stems.

2317. **H. epiphyllum**, Fr. Reg. Rep. 25, p. 98.

Fallen leaves.

2318. **H. Sarmentorum**, De Not.

Dead grape vines.

807. **DERMATEA**, Fr.2319. **D. fascicularis**, A. and S. (*Peziza fascicularis*, Fr. Reg. Rep. 22, p. 96.)

Dead poplar trunks and branches.

2320. **D. furfuracea**, Fr. Reg. Rep. 24, p. 96.

Dead alders.

2321. **D. carpinea**, Fr. Reg. Rep. 30, p. 62. (*Patellaria carpinea*, Berk.)Dead trunks of *Carpinus*.2322. **D. acericola**, Pk. (*Nodularia acericola*, Pk. Reg. Rep. 25 p. 98.)Dead *Acer spicatum*.808. **PATELLARIA**, Fr.2323. **P. atrata**, Fr. Reg. Rep. 24, p. 96.

Decaying wood.

2324. **P. indigotica**, C. and P. Reg. Rep. 25, p. 98.

Decaying wood.

2325. *P. fusispora*, C. and P. Reg. Rep. 28, p. 67.
Decaying wood.

2326. *P. lignyota*, Fr. Reg. Rep. 30, p. 62.
Decaying wood.

2327. *P. leptospermum*, Pk. Reg. Rep. 30, p. 62.
Decaying wood of maple.

2328. *P. rhabarbarinum*, Berk. Reg. Rep. 22, p. 96.
Dead stems of *Rubus villosus*.

809 SPHINCTRINA, Fr.

2329. *S. turbinata*, Fr. Reg. Rep. 22, p. 95.
On lichens.

2330. *S. tigillaris*, B. and Br. Reg. Rep. 28, p. 68.
On *Polyporus pergamenus* and *P. abietinus*.

2331. *S. gummæ*, B. and M. (*S. Cerasi*, B. and C. Reg. Rep. 24, p. 97.)
On gum of cherry.

810. TYMPANIS, Tode.

2332. *T. alnea*, Pers. Reg. Rep. 24, p. 97.
Dead alders.

2333. *T. Fraxini*, Schw. Reg. Rep. 27, p. 108.
Dead branches of ash.

2334. *T. gyrosa*, B. and C. Reg. Rep. 29, p. 56.
Dead branches of apple.

2335. *T. turbinata*, Schw. Reg. Rep. 30, p. 62.
Dead *Diervilla trifida*.

811. URNULA, Fr.

2336. *U. Craterium*, Schw. Reg. Rep. 22, p. 96. (*Peziza Craterium*, Schw.,
Cenangium Craterium, Fr., *Dermea Craterium*, Schw.)
Half buried sticks.

812. CENANGIUM, Fr.

2337. *C. Cerasi*, Fr. Reg. Rep. 24, p. 97.
Dead cherry.

2338. *C. Prunastri*, Fr. Reg. Rep. 24, p. 97.
Dead cherry.

2339. *C. Aucupariæ*, Fr. Reg. Rep. 28, p. 68.
Dead branches of *Amelanchier*.

2340. *C. Pinastri*, Fr. Reg. Rep. 22, p. 96.
Dead branches of pine.

2341. **C. seriatum**, Fr. Reg. Rep. 22, p. 96.

Dead birch.

2342. **C. populinum**, Schw. Reg. Rep. 22, p. 96.

Dead poplar.

2343. **C. triangulare**, Schw. Reg. Rep. 24, p. 97.

Dead oak.

2344. **C. Viburni**, Schw.

Dead *Viburnum lantanoides*.

813. ASCOBOLUS, Tode.

2345. **A. furfuraceus**, Pers. Reg. Rep. 29, p. 56.

Cow dung.

2346. **A. ciliatus**, Schm. Reg. Rep. 29, p. 56.

Cow dung.

814. ANGELINA, Fr.

2347. **A. rufescens**, Duby. (*Ascobolus conglomeratus*, Schw. Reg. Rep. 22, p. 95.)

Decaying chestnut and oak.

815. BULGARIA, Fr.

2348. **B. inquinans**, Pers. Reg. Rep. 22, p. 95.

Dead oak.

2349. **B. rufa**, Schw. Reg. Rep. 23, p. 62.

Ground or buried sticks.

2350. **B. sarcoides**, Fr. Reg. Rep. 22, p. 95.

Decaying wood.

2351. **B. purpurea**, Fckl. Reg. Rep. 29, p. 56. (*Coryne purpurea*, Fckl.)

Decaying wood.

816. STICTIS, Pers.

2352. **S. radiata**, Pers. Reg. Rep. 25, p. 99.

Dead bark.

2353. **S. Pupula**, Fr. Reg. Rep. 28, p. 69.

Dead poplar.

2354. **S. versicolor**, Fr. Reg. Rep. 29, p. 56.

Decaying wood.

2355. **S. hysterina**, Fr. Reg. Rep. 28, p. 69.

Dry pine branches.

817. PHACIDIUM, Fr.

2356. **P. Pini**, Fr. (*P. crustaceum*, B. and C. Reg. Rep. 22, p. 97. *Xyloma Pini*, A. and S.)
Dead pine branches. Our specimens apparently belong to the form noticed in Elenchus II, p. 136, in which the perithecia have a cinereous hue by reason of the covering epidermis.

818. RHYTISMA, Fr.

2357. **R. salicinum**, Fr. Reg. Rep. 22, p. 97.
Living leaves of willows.
2358. **R. acerinum**, Fr. Reg. Rep. 22, p. 96.
Living leaves of maple.
2359. **R. punctatum**, Fr. Reg. Rep. 22, p. 96.
Living leaves of maple. This is thought by some to be a form of the preceding species.
2360. **R. Prini**, Schw. Reg. Rep. 22, p. 96.
Living leaves of *Ilex verticillata*.
2361. **R. Canadensis**, Schw. Reg. Rep. 25, p. 100.
Living leaves of *Nemopanthes Canadensis*. Name simplified from *R. Ilicis-Canadensis*. *R. Asteris*, Schw., and *R. Solidaginis*, Schw., have never been found fertile, and are, in my opinion, simply insect galls.
2362. **R. Andromedæ**, Fr. Reg. Rep. 25, p. 100.
Living leaves of *Andromeda polifolia*.

819. GLONIUM, Muhl.

2363. **G. stellatum**, Muhl. Reg. Rep. 23, p. 63.
Decaying wood.
2364. **G. parvulum**, Ger. Reg. Rep. 30, p. 63. (*G. medium*, Cke.)
Decaying wood.
2365. **G. lineare**, Fr. (*Hysterium lineare*, Fr. Reg. Rep. 22, p. 97.)
Decaying wood.

820. HYSTERIUM, Tode.

2366. **H. pulicare**, Pers. Reg. Rep. 24, p. 97.
Decaying wood. *H. betulinum*, Schw., is not specifically distinct from *H. pulicare*.
2367. **H. truncatulum**, C. and P. Reg. Rep. 30, p. 63.
Decaying wood.
2368. **H. Rousselii**, De Not. Reg. Rep. 28, p. 69.
Decaying wood.

2369. *H. tortile*, Schw. Reg. Rep. 25, p. 100.

Dead wood and bark of *Thuja occidentalis*.

2370. *H. insidens*, Schw.

Decaying wood.

821. HYSTEROGRAPHIUM, Cd.

2371. *H. Fraxini*, Pers. (*Hysterium Fraxini*, Pers. Reg. Rep. 23, p. 63.

Dead branches of ash.

822. TRIBLIDIUM, Reb.

2372. *T. hiascens*, B. and C. (*Hysterium hiascens*, B. and C. Reg. Rep. 22 p. 97.)

Bark of *Quercus alba*.

823. HYPODERMA, DC.

2373. *H. Virgultorum*, DC. Reg. Rep. 24, p. 97.

Dead twigs. This and the four following species were formerly placed under the genus *Hysterium*.

2374. *H. Rubi*, Pers. Reg. Rep. 23, p. 63.

Dead twigs of *Rubus villosus*.

2375. *H. commune*, Fr. Reg. Rep. 25, p. 100.

Dead stems of herbs.

824. LOPHODERMIIUM, Chev.

2376. *L. Pinastri*, Schrad. Reg. Rep. 22, p. 97.

Fallen pine Leaves.

2377. *L. Rhododendri*, Schw. Reg. Rep. 27, p. 108.

Leaves of *Rhododendron maximum*.

825. COLPOMA, Wallr.

2378. *C. juniperinum*, C. and P. Reg. Rep. 26, p. 84 : ibid. 29, p. 63,

Bark of *Juniperus Virginiana*.

826. TORRUBIA, Lev.

2379. *T. ophioglossoides*, Tul. Reg. Rep. 25, p. 100.

Buried larvæ.

2380. *T. militaris*, L. (*Cordyceps militaris*, Fr. Reg. Rep. 23, p. 63.)

Buried larvæ.

827. EPICHLÖE, Fr.

2381. *E. typhina*, Berk. Reg. Rep. 28, p. 71.

Living stems of grasses and carices.

828. HYPOCREA. Fr.

2382. **H. gelatinosa**, Tode. Reg. Rep. 25, p. 100.
Decaying wood.
2383. **H. citrina**, Pers. Reg. Rep. 22, p. 97.
Old *Polyperi*, etc.
2384. **H. alutacea**, Pers. Reg. Rep. 26, p. 84.
Apparently parasitic on *Spathularia*.
2385. **H. Richardsonii**, B. and M. Reg. Rep. 22, p. 97 : ibid. 24, p. 103.
Dead poplar.
2386. **H. contorta**, Schw. Reg. Rep. 26, p. 84.
Decaying wood.
2387. **H. chromosperma**, C. and P. Reg. Rep. 29, p. 56.
Decaying wood.
2388. **H. Patella**, C. & P. Reg. Rep. 29, p. 57.
Decaying wood.

829. HYPOMYCES, Tul.

2389. **H. Lactifluorum**, Schw. (*Hypocrea Lactifluorum*, Schw. Reg. Rep. 22, p. 97.)
Parasitic on fungi.
2390. **H. aurantius**, Pers. Reg. Rep. 27, p. 108.
Decaying fungi.

830. CHILONECTRIA, Sacc.

2391. **C. Rosellinii**, Carest. (*Nectria balsamea*, C. and P. Reg. Rep. 26, p. 84.)
Dead bark of *Abies balsamea*.
2392. **C. callista**, B. and C. (*Sphaeria callista*, B. and C. Reg. Rep. 28, p. 77.)
Dead bark of *Cornus alternifolia*. This is *Sphaeria callista*, B. and C., in Ravenal's Fung. Car. Exsic. Fasc. V. No. 67, and *Cucurbitaria callista*, B. and C., in Grevillea, Vol. IV, p. 47. Both in the Ravenelian specimens and in the New York specimens, the asci are polysporous, and I have therefore referred the species to the genus *Chilonectria*.
2393. **C. oötheca**, B. and C. (*Sphaeria ootheca*, B. and C. Reg. Rep. 24, p. 99.)
Decaying wood.

831. NECTRIA. Fr.

2394. **N. cinnabarina**, Tode. Reg. Rep. 22, p. 98.
Dead trunks and branches.

2395. *N. cucurbitula*, Fr. Reg. Rep. 22, p. 99.
Dead branches of *Rhamnus*.

2396. *N. inaurata*, B. and Br. Reg. Rep. 24, p. 98.
Dead stems of *Celastrus*, *Rhus*, etc.

2397. *N. coccinea*, Pers. Reg. Rep. 26, p. 84.
Dead *Alnus*, *Carpinus*, etc.

2398. *N. episphæria*, Tode. Reg. Rep. 27, p. 108.
Old sphæriaceous fungi.

2399. *N. Celastri*, Schw. Reg. Rep. 26, p. 84.
Dead *Celastrus scandens*.

2400. *N. Ribis*, Tode. Reg. Rep. 26, p. 84.
Dead stems of *Ribes rubrum*,

2401. *N. Peziza*, Tode. Reg. Rep. 24, p. 98.
Decaying wood.

832. GIBBERA, Fr.

2402. *G. pulicaris*, Fr. (*Nectria pulicaris*, Fr. Reg. Rep. 30, p. 76.)
Old corn stalks.

833. MELANOSPORA, Cd.

2403. *M. lagenaria*, Pers. (*Sphæria lagenaria*, Pers. Reg. Rep. 27, p. 110.
Old *Polypori*.

834. XYLARIA, Fr.

2404. *X. polymorpha*, Grev. Reg. Rep. 22, p. 97.
Decaying wood.

2405. *X. grandis*, Pk. Reg. Rep. 26, p. 85.
Decaying wood.

2406. *X. corniformis*, Fr. Reg. Rep. 24, p. 97.
Decaying wood.

2407. *X. acuta*, Pk. Reg. Rep. 25, p. 101.
Decaying wood.

2408. *X. digitata*, Grev. Reg. Rep. 24, p. 97.
Decaying wood.

2409. *X. Hypoxylon*, Grev. Reg. Rep. 22, p. 97.
Decaying wood.

835. HYPOXYLON, Fr.

2410. *H. concentricum*, Bolt. Reg. Rep. 24, p. 97.
Decaying wood. This is *Daldinia concentrica* of some authors.
Hypoxylon vernicosum, Schw., is a mere form of this species.

2411. *H. coccineum*, Bull. (*H. fragiforme*, Pers. Reg. Rep. 22, p. 98.)
Decaying wood.
2412. *H. Howeanum*, Pk. Reg. Rep. 24, p. 98.
Decaying wood.
2413. *H. fuscum*, Pers. Reg. Rep. 22, p. 97.
Decaying wood.
2414. *H. cohærens*, Pers. Reg. Rep. 22, p. 98.
Decaying wood of beech.
2415. *H. Morseii*, B. and C. Reg. Rep. 24, p. 98.
Decaying wood of alder.
2416. *H. Blakeii*, B. and C.
Decaying wood of willow.
2417. *H. serpens*, Pers. Reg. Rep. 22, p. 98.
Decaying wood.
2418. *H. perforatum*, Schw. Reg. Rep. 24, p. 98.
Decaying wood.
2419. *H. multifforme*, Fr. Reg. Rep. 22, p. 98.
Decaying wood and bark.
2420. *H. suborbiculare*, Pk. Reg. Rep. 30, p. 63.
Decaying wood of black ash. This is *Diatrype cercidicola*,
B. and C. Report 25, p. 100.
2421. *H. fuscopurpureum*, Schw. Reg. Rep. 28, p. 71.
Decaying wood.
2422. *H. atropurpureum*, Fr.
Decaying wood of *Tilia Americana*.

836. NUMMULARIA, Tul.

2423. *N. Bulliardi*, Tul. (*Hypoxylon clypeus*, Schw. *H. nummularia*, Bull.
Reg. Rep. 22, p. 98.)
Dead trunks and branches of oak and maple.

837. EUTYPA, Tul.

2424. *E. spinosa*, Pers. (*Sphæria limaformis*, Schw. Reg. Rep. 22, p. 97.)
Decaying wood.
2425. *E. lata*, Pers. Reg. Rep. 25, p. 102.
Decaying wood.

838. MELOGRAMMA, Fr.

2426. *M. Bulliardi*, Tul. Reg. Rep. 28, p. 71.
Bark of *Carpinus*.

2427. **M. superficialis**, P. and C. Reg. Rep. 29, p. 57.
Living bark of mountain ash.
2428. **M. fuliginosa**, M. and N. (*M. Quercuum*, Schw. Reg. Rep. 23, p. 63.)
Dead branches of oak, etc.
2429. **M. gyrosa**, Schw. (*Sphæria gyrosa*, Schw. Reg. Rep. 24, p. 99, *Endothia gyrosa*, Fckl.)
Decaying wood of beech.

839. DOTHIDEA, Fr.

2430. **D. Sambuci**, Pers. Reg. Rep. 24, p. 99.
Dead stems of *Sambucus Canadensis*.
2431. **D. Ribesia**, Pers. Reg. Rep. 24, p. 99.
Dead stems of *Ribes rubrum*.
2432. **D. Linderæ**, Ger. Reg. Rep. 28, p. 71.
Dead branches of *Lindera Benzoin*.
2433. **D. vimincola**, Schw. Reg. Rep. 30, p. 64. (*Hysterium vimincola*, Schw.)
Dead branches of *Diervilla trifida*.
2434. **D. clavispora**, C. and P. Reg. Rep. 30, p. 76. (*Hysterium clavisporum*, C. and P. Reg. Rep. 28, p. 69.)
Dead stems of *Phragmites communis*.
2435. **D. Osmundæ**, P. and C. Reg. Rep. 30, p. 64.
Dead stems of *Osmunda regalis*.

840. PHYLLACHORA, Nke.

2436. **P. Potentillæ**, Schw. Reg. Rep. 22, p. 100.
Leaves of *Potentilla Canadensis*. This and the three following species were formerly referred to the genus *Sphæria*.
2437. **P. perisporioides**, B. and C. Reg. Rep. 28, p. 80.
Leaves of *Desmodium Canadense*.
2438. **P. graminis**, Pers. Reg. Rep. 23, p. 64.
Leaves of grasses.
2439. **P. Ulmi**, Sow. (*Sphæria Ulmea*, Schw. Reg. Rep. 22, p. 99.)
Leaves of elms.
2440. **P. Trifolii**, Pers. Reg. Rep. 25, p. 102.
Leaves of *Trifolium pratense*.

841. DIATRYPE, Fr.

2441. **D. stigma**, Hoffm. Reg. Rep. 22, p. 98.
Dead trunks and branches.

2442. *D. disciformis*, Fr. Reg. Rep. 22, p. 98.
Dead trunks and branches.
2443. *D. platystoma*, Schw. Reg. Rep. 26 p. 85.
Dead trunks and branches.
2444. *D. atropunctata*, Schw. Reg. Rep. 26, p. 101.
Dead trunks and branches.
2445. *D. Duriæi*, Mont. Reg. Rep. 23, p. 63.
Dead trunks and branches.
2446. *D. virescens*, Schw. Reg. Rep. 23, p. 63.
Dead trunks and branches of beech.
2447. *D. quadrata*, Schw. (*L. obesa*, B. and C. *D. brunnea*, C. and P.)
Dead trunks and branches.
2448. *D. anomala*, Pk. Reg. Rep. 28, p. 72.
Dead trunks of *Corylus*.
842. DIATRYPELLA, Ces. and DeNot.
2449. *D. Cephalanthi*, Schw. Reg. Rep. 29, p. 58.
Dead *Cephalanthus occidentalis*.
2450. *D. discoidea*, C. and P. (*Diatrype discoidea*, C. and P. Reg. Rep. 28, p. 71.)
Dead *Betula populifolia*.
2451. *D. prominens*, Howe. Reg. Rep. 28, p. 72.
Dead *Platanus occidentalis*.
2452. *D. Tocciaëana*, DeNot. Reg. Rep. 26, p. 86.
Dead *Alnus incana*.
843. MELANCONIS, Tul.
2453. *M. stilbostoma*, Fr. Reg. Rep. 26, p. 86. (*Valsa stilbostoma*, Fr. Reg. Rep. 22, p. 98.)
Dead trunks and branches.
2454. *M. bicornis*, Cke. Reg. Rep. 28, p. 72.
Dead *Platanus occidentalis*.
844. HERCOSPORA, Fr.
2455. *H. Tiliæ*, Fr.
Dead branches of *Tilia Americana*. *Sphæria Tiliæ*, Reg. Rep. 24, p. 99, is a synonym of this, as also are *Valsa Tiliæ*, *Valsaria Tiliæ* and *Valsa tilaginea*. *Rabenhorstia Tiliæ* and *Exosporium Tiliæ* are considered by some to be other conditions of this species.

845. CRYPTOSPORA, Tul.

2456. *C. suffusa*, Fr. (*Valsa suffusa*, Fr. Reg. Rep. 28, p. 74.)
Dead alders.
2457. *C. femoralis*, Pk. (*Valsa femoralis*, Pk. Reg. Rep. 28, p. 74.)
Dead alders and basswood.

846. QUATERNARIA, Tul.

2458. *Q. Persoonii*, Nke. (*Valsa quaternata*, Fr. Reg. Rep. 25, p. 103.)
Dead trunks and branches.

847. VALSA, Fr.

2459. *V. stellulata*, Fr. (*Diatryphe haustella*, Fr. Reg. Rep. 23, p. 63.)
Dead trunks and branches.
2460. *V. juglandicola*, Schw. Reg. Rep. 30, p. 64.
Dead trunks and branches of *Carya alba*.
2461. *V. nivea*, Fr. Reg. Rep. 22, p. 98.
Dead trunks and branches of poplars.
2462. *V. leucostoma*, Fr. Reg. Rep. 24, p. 98.
Dead branches of plums, etc.
2463. *V. salicina*, Fr. Reg. Rep. 24, p. 98.
Dead branches of willows.
2464. *V. ambiens*, Fr. Reg. Rep. 25, p. 102.
Dead branches of poplars, etc.
2465. *V. Platani*, Schw. Reg. Rep. 25, p. 103.
Dead branches of *Platanus*.
2466. *V. Vitis*, Schw. Reg. Rep. 25, p. 103.
Dead branches of *Vitis*.
2467. *V. Pini*, A. and S. Reg. Rep. 24, P. 99.
Dead branches of pine trees.
2468. *V. colliculus*, Wormsk. Reg. Rep. 25, p. 103.
Dead branches of pine trees.
2469. *V. Alni*, Pk. Reg. Rep. 25, p. 103.
Dead branches of alders.
2470. *V. centripeta*, Fr. Reg. Rep. 26, p. 86.
Dead branches of alders.
2471. *V. aculeans*, Schw. (*Sphaeria aculeans*, Schw. Reg. Rep. 24, p. 99.)
Dead branches of sumach.

848. CUCURBITARIA, Fr.

2472. *C. elongata*, Grev. (*Sphæria elongata*, Fr. Reg. Rep. 23, p. 64.)
Dead branches of *Robinia*

2473. *C. Berberidis*, Gray. Reg. Rep. 30, p. 65.
Dead barberry.

849. MASSARIA, DeNot.

2474. *M. vomitoria*, B. and C. Reg. Rep. 23, p. 65.
Dead maple.

2475. *M. atroinquians*, B. and C.
Dead buttonwood.

850. LOPHIOSTOMA, DeNot.

2476. *L. triseptata*, Pk. Reg. Rep. 28, p. 76.
Decaying wood.

851. SPHÆRIA, Hall.

Modern mycologists have divided the old genus *Sphæria* into many smaller genera with narrower limits. Most of our species fall readily enough into these modern genera, but in a few instances these generic limits are not wholly satisfactory, and will need some modification. So far as possible I have grouped our species with reference to these modern genera. C. H. P.

§ 1. SPHÆRIA proper.

2477. *S. monosperma*, Pk. Reg. Rep. 28, p. 79.
Decaying wood. There is a genus of lichens, *Sporopodium*, Mont., whose species have spores similar to those found in this *Sphæria*, but in other respects the plants are quite unlike.

2478. *S. exilis*, A. and S. Reg. Rep. 29, p. 61.
Decaying wood. The bristly perithecia separate this species from the genus *Calosphæria*. Perhaps the more comprehensive genus *Nitschkia* might include it.

2479. *S. morbosa*, Schw. Reg. Rep. 23, p. 64.
Living branches of plum and cherry trees. This species has been referred by some botanists to the genus *Cucurbitaria*, but it does not well agree with the characters of that genus. It comes very near to *Dimerosporium*, Fckl., from which its cylindrical (not ovoid) asci separate it.

2480. *S. fraxicola*, Schw. Reg. Rep. 25, p. 105.
Fallen ash leaves.

2481. *S. Daturæ*, Schw. Reg. Rep. 28, p. 79.

Dead stems of *Datura Tatula*.

§ 2. *ROSELLINIA*, DeNot.

2482. *S. aquila*, Fr. Reg. Rep. 23, p. 63.

Decaying wood and branches.

2483. *S. pulveracea*, Ehrh. Reg. Rep. 25, p. 104.

Decaying wood.

2484. *S. millegrana*, Schw.

This species scarcely differs from the preceding except in the size and shape of the spores.

2485. *S. hirtissima*, Pk. Reg. Rep. 28, p. 78.

Decaying wood of pine.

2486. *S. capillifera*, Curr.

Decaying wood.

2487. *S. mutans*, C. and P. Reg. Rep. 26, p. 87 : *ibid.* 29, p. 64.

Decaying wood.

§ 3. *BOMBARDIA*, Fr.

2488. *S. bombarda*, Batsch. Reg. Rep. 25, p. 104. (*Bombardia fasciculata* Fr.)

Decaying wood.

§ 4. *LEPTOSPORA*, Rabh.

2489. *S. spermoides*, Hoffm. Reg. Rep. 29, p. 61.

Decaying wood.

§ 5. *BERTIA*, DeNot.

2490. *S. moriformis*, Tode. Reg. Rep. 25, p. 104.

Decaying wood.

§ 6. *MELANOMMA*, Nke.

2491. *S. pulvis-pyrius*, Pers. Reg. Rep. 22, p. 99.

Decaying wood.

§ 7. *SORDARIA*, Ces. and DeNot.

2492. *S. coprophila*, Fr. (*Hypoxylon coprophila*, Fr. Reg. Rep. 23, p. 63.)
Cow dung.

2493. *S. leucoplaca*, B. and R. Reg. Rep. 25, p. 105.

Cow dung.

§ 8. *SPORORMIA*, DeNot.

2494. *S. minima*, And. Reg. Rep. 28, p. 78.

Cow dung.

§ 9. *LASIOSPHÆRIA*, Ces. and DeNot.2495. *S. ovina*, Pers. Reg. Rep. 22, p. 99.

Decaying wood.

§ 10. *TRICHOSPHERIA*, Fckl.2496. *S. exigua*, C. and P. Reg. Rep. 30, p. 65.

Decaying wood.

§ 11. *ECHNIOSPHERIA*, Fckl.2497. *S. Clintonii*, Pk. Reg. Rep. 30, p. 65.

Decaying wood.

§ 12. *CERATOSTOMA*, Fr.2498. *S. rostrata*, Tode. Reg. Rep. 22, p. 99.

Decaying wood.

2499. *S. rubefaciens*, Pk. Reg. Rep. 28, p. 79.

Decaying wood.

2500. *S. pilifera*, Fr. Reg. Rep. 27, p. 110.

Decaying wood.

§ 13. *DIAPORTHE*, Nke.2501. *S. spiculosa*, Pers. Reg. Rep. 29, p. 61.

Dead branches.

2502. *S. aculeata*, Schw. Reg. Rep. 22, p. 99.

Dead stems of herbs.

§ 14. *RAPHIDOPHORA*, Ces. and DeNot.2503. *S. rubella*, Pers. Reg. Rep. 25, p. 104.

Dead stems of herbs.

2504. *S. acuminata*, Sow. Reg. Rep. 22, p. 99.Dead stems of *Cirsium*, etc.§ 15. *ZIGNOELLA*, Sacc.2505. *S. pulviscula*, Curr.

Decaying wood.

§ 16. *PLAGIOSTOMA*, Fckl.2506. *S. eccentrica*, C. and P. Reg. Rep. 25, p. 105.Dead stems of *Polygonum*.§ 17. *PLEOSPORA*, Rabh.2507. *S. Herbarum*, Pers. Reg. Rep. 30, p. 67.Dead *Scirpus validus*.2508. *S. infectoria*, Fckl.Dead *Calamagrostis arenaria*.

§ 18. *LEPTOSPHERIA*, Ces. and DeNot.

2509. *S. Doliolum*, Pers. Reg. Rep. 23, p. 64.
Dead stems of herbs.
2510. *S. subconica*, C. and P. Reg. Rep. 26, p. 87.
Dead stems of herbs.
2511. *S. complanata*, Tode.
Dead stems of herbs.
2512. *S. staphylina*, Pk. Reg. Rep. 26, p. 86.
Dead branches of *Staphylea trifolia*
2513. *S. taxicola*, Pk. Reg. Rep. 24, p. 99.
Leaves of *Taxus Canadensis*.
2514. *S. Hendersonia*, Ellis. (*S. fuscella*, B. and Br. Reg. Rep. 26, p. 87.
S. melantera, Pk. Reg. Rep. 29, p. 62.)
Dead stems of *Rubus strigosus*.

§ 19. *GNOMONIA*, Ces. and DeNot.

2515. *S. fimbriata*, Pers. Reg. Rep. 22, p. 100.
Living leaves of *Carpinus* and *Ostrya*.
2516. *S. Coryli*, Batsch. Reg. Rep. 22, p. 100.
Living leaves of *Corylus*.
2517. *S. tubæformis*, Tode. Reg. Rep. 28, p. 80.
Fallen leaves of *Carya alba*.
2518. *S. melanostyla*, DC. Reg. Rep. 25, p. 105
Fallen leaves of *Rubus odoratus*.
2519. *S. amœna*, Nees. (*S. petiolorum*, Schw. Reg. Rep. 25, p. 105.)
Petioles of ash leaves.

852. *SPHÆRELLA*, DeNot.

2520. *S. maculæformis*, Pers. (*Sphæria maculæformis*, Pers. Reg. Rep. 26,
p. 86.
Fallen leaves of *Nyssa*.
2521. *S. onosmodina*, Pk. (*Sphæria onosmodina*, Pk. Reg. Rep. 30, p. 67.)
Dead stems of *Onosmodium Carolinianum*.
2522. *S. Sarraceniæ*, Schw. (*Sphæria Sarraceniæ*, Schw. Reg. Rep. 24,
p. 99.
Leaves of *Sarracenia purpurea*.
2523. *S. sparsa*, Amd. Reg. Rep. 28, p. 81.
Leaves of *Tilia* and *Betula*.
2524. *S. oblivia*, Cke. Reg. Rep. 28, p. 81.
Leaves of *Rhododendron maximum*.

2525. *S. carpinea*, Fr. Reg. Rep. 28, p. 81.

Leaves of *Carpinus*.

2526. *S. indistincta*, Pk. Reg. Rep. 28, p. 81.

Fronds of *Pteris aquilina*.

2527. *S. Impatiensis*, P. & C. Reg. Rep. 30, p. 67.

Leaves of *Impatiens fulva*.

853. VENTURIA, DeNot.

2528. *V. Clintonii*, Pk. Reg. Rep. 28, p. 82.

Leaves of *Cornus coccinea*.

854. STIGMATEA, Fr.

2529. *S. Robertiani*, Fr. (*Dothidea Robertiani*, Fr. Reg. Rep. 23, p. 65.)

Living leaves of *Geranium Robertianum*.

855. MICROTHYRIUM, Desm.

2530. *M. Smilacis*, DeNot. Reg. Rep. 24, p. 85.

Dead stems of *Smilax*.

856. DICHÆNA, Fr.

2531. *D. faginea*, Fr. Reg. Rep. 22, p. 96.

Bark of living beech.

2532. *D. quercina*, Fr.

Bark of living oak.

ORDER 117. CHARACEÆ.

857. CHARA, L.

2533. *C. fragilis*, Desv. (*C. fetida* of authors.)

2534. *C. coronata*, Ziz.

858. NITELLA, Agardh.

2535. *N. flexilis*, Agardh.

ORDER 118. ALGÆ.

SUB-ORDER I. RHODOPHYCEÆ.

859. BATRACHOSPERMUM, Roth.

2536. *B. moniliforme*, Roth.

Rapids of Niagara River, on the Canadian side, opposite Buffalo, June, 1882.

860. CHANTRANSIA, Fries.

2537. *C. violacea*, Kuetz. (*C. expansa*, H. C. Wood.)
Aurora, Erie Co. *Wolle.* Gowanda, Erie Co.

861. PORPHYRIDIDIUM, Naeg.

2538. *P. cruentum*, Naeg.
Johnson's Park, and on earth in a garden at No 83, Mohawk
St., Buffalo. *J. W. Ward.*

SUB-ORDER 2. CHLOROPHYLLOPHYCEÆ,

862. APHANOCHÆTE, Braun.

2539. *A. repens*, A. Braun.
Abundant on *Ædogonium*, from the sulphur spring on the
margin of Scajauquady's Creek, near Buffalo Park, Sept.,
1882.

863. COLEOCHÆTE, Bréb.

2540. *C. scutata*, Bréb.
Abundant on *Typha*, *Anacharis*, etc.

864. CHÆTOPHORA, Schrank.

2541. *C. endiviæfolia*, Agardh.
2542. *C. elegans*, Agardh.

865. DRAPARNALDIA, Agardh.

2543. *D. plumosa*, Agardh.
Aurora, Erie Co. *Wolle.*

2544. *D. glomerata*, Agardh.
Alden, Erie Co.

866. STIGEOCLONIUM, Kuetz.

2545. *S. tenue*, Rabenh.
Aurora, Erie Co. *Wolle.*

2546. *S. ———*
Niagara River, West Seneca, Erie Co., and elsewhere.

867. CHROOLEPUS, Agardh.

2547. *C. aureum*, Kuetz.
Niagara Falls; Caledonia, Liv. Co. Miss *Mary L. Wilson.*

868. ULOTHRIX, Kuetz.

- 2548.
- U. rivularis*
- , Kuetz.

Abundant in a spring in the grounds of the State Lunatic
Asylum, Buffalo, Sept., 1882.

- 2549.
- U. subtilis*
- , Kuetz.

Aurora, Erie Co. *Wolle*.

869. HORMISCIA, Aresch.

- 2550.
- H. zonata*
- , Aresch.

870. BULBOCHÆTE, Agardh.

- 2551.
- B. intermedia*
- , DeBary.

Gowanda, Erie Co.; Fort Erie, Ont.

871. CEDOGONIUM, Link.

- 2552.
- C. stagnata*
- , Wittr.

Scajauquady's Creek, Buffalo. Determined by *Wolle*.

- 2553.
- C. pachydermum*
- , Wittr.

Scajauquady's Creek, Buffalo. Determined by *Wolle*.

872. CLADOPHORA, Kuetz.

- 2554.
- C. canalicularis*
- , Roth.

Three Sisters Islands, Niagara Falls. *Wolle*.

- 2555.
- C. glomerata*
- , Kuetz.

Everywhere in Niagara River where the current is strong.

- 2556.
- C. fracta*
- , Dillw.

Wolle.

873. RHIZOCLONIUM, Kuetz.

- 2557.
- R. Horsfordii*
- , Wolle.

Aurora, Erie Co. *F. H. Horsford*. (*Bull. Torr. Bot. Club*,
Vol. IX, p. 26.)

874. CONFERVA, L.

- 2558.
- C. bombycina*
- , Agardh.

875. VAUCHERIA, DC.

- 2559.
- V. cæspitosa*
- , Agardh.

- 2560.
- V. sessilis*
- , DC.

Aurora, Erie Co. *Woll*

876. HYDROGASTRUM, Desv.

- 2561.
- H. Wallrothii*
- , Kuetz.

Damp earth, Buffalo. *Wolle.*

- 2562.
- H. granulatum*
- , Desv.

Exposed soil, Buffalo. *Wolle.*

877. PLEUROCARPUS, A. Braun.

- 2563.
- P. mirabilis*
- , A. Braun.

878. ZYGOGONIUM, Kuetz.

- 2564.
- Z. anomalum*
- , Kuetz.

879. SPIROGYRA, Link.

- 2565.
- S. crassa*
- , Kuetz.

Abundant at Squaw Island, Niagara River.

- 2566.
- S. nitida*
- , Link.

Wolle.

- 2567.
- S. elongata*
- , Kuetz.

Port Colborne, Ont., July 1, 1882.

- 2568.
- S. quinina*
- , Kuetz.

- 2569.
- S. longata*
- , Kuetz.

Wolle.

880. STAUROASTRUM, Meyen.

- 2570.
- S. oxyacanthum*
- , Archer.

- 2571.
- S. gracile*
- , Ralfs.

- 2572.
- S. margaritaceum*
- , Menegh.

- 2573.
- S. dejectum*
- , Bréb.

881. DIDYMOPRIUM, Kuetz.

- 2574.
- D. Grevillii*
- , Kuetz.

882. PLEUROTÆNIUM, Naeg.

- 2575.
- P. Baculum*
- , DeBary.

883. CLOSTERIUM, Nitzsch.

- 2576.
- C. parvulum*
- , Naeg.

- 2577.
- C. Dianæ*
- , Ehrb.

- 2578.
- C. Lunula*
- , Ehrb.

884. PALMOGLCEA, Kuetz.

2579. P. ———, (?)

Gowanda, Erie Co., June, 1882.

885. VOLVOX, L.

2580. V. Globator, L.

Everywhere about Buffalo, in ponds and ditches. Especially abundant in autumn with *Chara fragilis*.

886. PEDIASTRUM, Meyen.

2581. P. Boryanum, Menegh.

887. HYDRODICTYON, Roth.

2582. H. utriculatum, Roth.

Immense quantities are in Niagara River, at the head of Squaw Island, and Scajauquady's Creek, in autumn.

888. SCENEDESMUS, Meyen.

2583. S. quadricauda, Bréb.

2584. S. acutus, Meyen., var obliquus, Rabenh.

2585. S. obtusus, Meyen.

Rare. On wall of old mill, Black Rock harbor, North Buffalo.

889. DICTYOSPHÆRIUM, Naeg.

2586. D. pulchellum, H. C. Wood.

In a swamp at Springville, Erie Co., June.

890. HORMOSPORA, Bréb.

2587. H. geminella, Wolle.

In pools of exposed water, Buffalo. Wolle. (*Bull. Torr. Bot. Club, Vol. VI, p. 140.*)

891. RHAPHIDIUM, Kuetz.

2588. R. polymorphum, Fresen.

In the Buffalo City water supply, and elsewhere.

892. TETRASPORA, Link.

2589. T. lubrica, Agardh.

Rivers and ponds in early summer. Abundant.

893. PALMELLA, Lyngb.

2590. P. miniata, Leibl.

Wet earth at Black Rock, (North Buffalo), June, 1882.

2591. *P. hyalina*, Bréb.

Abundant in ditches in April and May.

894. PLEUROCOCCUS, Menegh.

2592. *P. roseo-persicinus*, Rabenh.

Especially abundant on the submerged parts of water-plantain,

(*Alisma Plantago*.)

2593. *P. miniatus*, Naeg.

2594. *P. vulgaris*, Menegh.

895. CYLINDROCAPSA, Reinsch.

2595. *C. geminata*, Wolle.

Wolle.

SUB-ORDER 3. PHYCOCHROMOPHYCEÆ.

896. SCHIZOSIPHON, Kuetz.

2596. *S. intertentus*, Grun.

Determined by Wolle.

2597. *S. crustiformis*, Naeg.

Determined by Wolle.

2598. *S. Cataractæ*, Naeg.

Niagara Falls, Wolle.

897. SYMPHYOSIPHON, Kuetz.

2599. *S. incrustans*, Kuetz.

On rocks exposed to the spray of Niagara Falls. Wolle.

2600. *S. Contarenii*, Kuetz.

In same situations with the last. Wolle.

898. ARTHROSIPHON Kuetz.

2601. *A. alatus*, Rabenh. (*Petalonema alatum*, Berk.)

"On dripping rocks under Biddle stair-case, Niagara Falls."
Harvey.

899. DIPLOCOLON, Naeg.

2602. *D. Heppii*, Naeg.

Niagara Falls, Wolle.

900. SCYTONEMA, Agardh

2603. *S. chrysochlorum*, Kuetz.

Shaded rocks, Niagara Falls, Wolle.

2604. *S. Hagetschweileri*, Rabenh.
Forming a dark brown coating on wet rocks, Niagara Falls.
"Probably Wood's *S. cataracta*." *Wolle*.
2605. *S. Austinii*, H. C. Wood. (?)
Wet rocks, Niagara Falls.
2606. *S. Cataractæ*, H. C. Wood.
"This species grows abundantly in Niagara River on the rocks
below the great cataract." *H. C. Wood*.
901. MASTIGONEMA, Schwabe.
2607. *M. Orsinianum*, Kuetz.
"On rocks in rapids of Niagara River." *Wolle*.
2608. *M. cæspitosum*, Kuetz.
2609. *M. plana*, Rabenh.
Wet rocks at Portage, Genesee River. *Wolle*.
902. ZONOTRICHIA, J. Agardh.
2610. *Z. mollis*, H. C. Wood.
Cave of the winds, Niagara Falls. *H. C. Wood*.
2611. *Z. parcezonata*, H. C. Wood.
Cave of the winds, Niagara Falls. *H. C. Wood*.
2612. *Z. chrysocoma*, Rabenh.
Moist earth, Niagara Falls. *Wolle*. *Wolle* suggests that
Wood's *Z. parcezonata* is probably only the young growth of
this species. (*Bull. Torr. Bot. Club*, Vol. VI, p. 138.)
903. RIVULARIA, Agardh.
2613. *R. cartilaginea*, H. C. Wood.
Niagara River in autumn, on various aquatic plants.
904. GLOIOTRICHIA, J. Agardh.
2614. *G. incrustata*, H. C. Wood.
Scajauquady's Creek, Buffalo, Sept., 1882: its abundant, gel-
atinous spheres attached to various plants.
2615. *G. gigantea*, Trent.
2616. *G. natans*, Thuret.
"Fronds attached to water plants in pools, Buffalo." *Wolle*.
905. CYLINDROSPERMUM, Kuetz.
2617. *C. flexuosum*, Rabenh.
In a pond at "The Front," Buffalo, Sept., 1882.

2618. **C. comatum**, H. C. Wood.

Niagara Falls. "Growing upon the ground in the marshes which border the river just above the Canadian Falls." *H. C. Wood*.

906. **ANABÆNA**, Bory.

2619. **A. intricata**, Kuetz.

Wolle.

2620. **A. Flos-aquæ**, Kuetz.

Squaw Island, Niagara River.

2621. **A. gigantea**, H. C. Wood.

Chautauqua Lake, Aug. 1879. This *Alga* had been driven by the winds into sheltered places along the south-western shore. The immense quantities of the plant gave the water, for several feet from the shore, the color of "pea soup," as mentioned by *H. C. Wood*, of the same plant in the brick yards at Philadelphia, where he discovered it.

907. **NOSTOC**, Vauch.

2622. **N. comminutum**, Kuetz.

In a pond at "The Front," Buffalo, May, 1882; Niagara City, Ont., June, 1882, and elsewhere.

2623. **N. commune**, Vauch.

Niagara Falls, Oct. 28, 1882. Abundant on moist ground, rocks, etc. Our plant agrees well with Rabenhorst's description except in the distance between the cells:—ours having the cells not loosely, but closely connected. *H. C. Wood* points out the same variation.

2624. **N. cæruleum**, Lyngb.

In ponds at "The Front," Buffalo, May and June.

2625. **N. sphæricum**, Vauch.

908. **PHORMIDIUM**, Kuetz.

2626. **P. vulgare**, Kuetz.

Aurora, Erie Co., *Wolle*.

909. **OSCILLARIA**, Bosc.

2627. **O. Imperator**, H. C. Wood.

Buffalo River, floating in dark, olive-colored masses, Sept, 1882.

2628. **O. neglecta**, H. C. Wood.

Trout pond at Gowanda, June, 1882. At various dates in Niagara River, forming colored strata.

2629. *O. Frœlichii*, Kuetz.
In thin, green strata, Black Rock harbor (North Buffalo), and elsewhere ; usually with *O. limosa*. Filaments often twisted together like the strands of a rope.
2630. *O. nigra*, Vauch.
Appearing in vast quantities in the ship canal at Black Rock, (North Buffalo), in June ; floating and attached.
2631. *O. limosa*, Agardh.
Everywhere in thin green strata.
910. BEGGIATOA, Trevisan.
2632. *B. nivea*, Rabenh.
Sulphur Spring, Niagara Falls. *Wolle*.
911. HYPHEOTHRIX, Kuetz.
2633. *H. æruginea*, Wolle.
912. SYNECHOCOCCUS, Naeg.
2634. *S. elongatus*, Naeg.
Aurora, Erie Co., *Wolle*.
913. MERISMOPEDIA, Meyen.
2635. *M. nova*, H. C. Wood.
Buffalo City water supply. Abundant in a spring by the road side at Sawyer's Creek, Niagara Co., Sept. 1, 1881.
914. GLÆOCAPSA, Kuetz.
2636. *G. sparsa*, H. C. Wood.
Wet rocks at Niagara Falls, Oct. 28, 1882.
2637. *G. janthina*, Naeg.
Cliffs, Niagara Falls. *Wolle*.
2638. *G. æruginea*, Kuetz.
Niagara Falls.
915. CHROOCOCCUS, Naeg.
2639. *C. multicoloratus*, H. C. Wood.
Wet earth along the margin of Scajauquady's Creek, with other *Algæ*. Our plant agrees well with Wood's description and figures, except only that the colors observed were the usual blue-green and yellowish.
2640. *C. rufescens*, Naeg.
Niagara Falls. *Wolle*.

SUB-ORDER 4. DIATOMOPHYCEÆ.

916. CLYTOTELLA, Kuetz.

2641. **C. operculata**, Kuetz.
Buffalo City water supply.
2642. **C. Americana**, J. W. Ward, *incl.*
Buffalo. *J. W. Ward.*

917. ACTINOCYCLUS, Ehrb.

2643. **A. Niagaraæ**, H. L. Smith.
Buffalo City water supply.

918. STEPHANODISCUS, Ehrb.

2644. **S. Niagaraæ**, Ehrb.
Buffalo City water supply.

919. MELOSIRA, Agardh.

2645. **M. Crotenensis**, H.
Buffalo City water supply.
2646. **M. varians**, Agardh.
Aurora, Erie Co. *Wolle.*

920. SURIRELLA, Turpin.

2647. **S. linearis**, Sm.
Buffalo. *J. W. Ward.*
2648. **S. biseriata**, Bréb.
Hamburg, Erie Co. *E. S. Nott.*
2649. **S. angusta**, Kuetz.
Buffalo. *J. W. Ward.*
2650. **S. splendida**, Kuetz.
Buffalo City water supply.
2651. **S. turgida**, Sm.
Buffalo City water supply.
2652. **S. ovalis**, Bréb.
Buffalo City water supply.
2653. **S. ovata**, Kuetz.
Buffalo City water supply.
2654. **S. minuta**, Bréb.
Buffalo. *J. W. Ward.*

921. CYMATOPLEURA, Sm.

2655. *C. elliptica*, Sm.
Buffalo City water supply.
2656. *C. Solea*, Sm.
Buffalo City water supply.

922. EPITHEMIA, Bréb.

2657. *E. turgida*, Kuetz.
Buffalo. *J. W. Ward.*
2658. *E. Sorex*, Kuetz.
Buffalo. *J. W. Ward.*
2659. *E. ventricosa*, Kuetz.
Buffalo. *J. W. Ward.*
2660. *E. gibba*, Kuetz.
Buffalo. *J. W. Ward.*
2661. *E. Argus*, Kuetz.
Buffalo. Rare. *J. W. Ward.*
2662. var *alpestris*, Rabenh. (*E. alpestris*, Sm.)
On bark of trees, Buffalo. *J. W. Ward.*

923. EUNOTIA, Ehrb.

2663. *E. Arcus*, Kuetz. (*Himantidium Arcus*, Ehrb.)
Aurora, Erie Co. *Wolle.*
2664. *E. sp.*
Buffalo. *J. W. Ward.*

924. CYMBELLA, Agardh

2665. *C. cuspidata*, Kuetz.
Buffalo City water supply.
2666. *C. maculata*, Kuetz.
Buffalo. *J. W. Ward.* Hamburg, Erie Co. *E. S. Nott.*
2667. *C. ventricosa*, Agardh.
Buffalo. *J. W. Ward.*
2668. *C. lunata*, Sm.
Buffalo. *J. W. Ward.*

925. COCCONEMA, Ehrb.

2669. *C. lanceolata*, Ehrb. (?)
Hamburg, Erie Co. *E. S. Nott.*

2670. **C. cymbidiformis**, Ehrb., (?)
Buffalo. *J. W. Ward.*
2671. **C. gibba**, Ehrb.
Buffalo. *J. W. Ward.*
2672. **C. parva**, Sm.
Buffalo. *J. W. Ward.*
926. **ENCYONEMA**, Kuetz.
2673. **E. prostratum**, Ralfs.
Hamburg, Erie Co. *E. S. Nott.*
927. **AMPHORA**, Ehrb.
2674. **A. ovalis**, Kuetz.
Buffalo City water supply.
2675. **A. gracilis**, Ehrb.
Buffalo. *J. W. Ward.*
928. **COCCONEIS**, Ehrb.
2676. **C. Pediculus**, Ehrb.
Buffalo.
2677. **C. rhombea**, Ehrb.
Buffalo. *J. W. Ward.*
2678. **C. striolata**, Rabenh.
929. **RHOICOSPHENIA**, Grun.
2679. **R. curvata**, Grun. (*Gomphonema curvatum*, Kuetz.)
930. **ODONTIDIUM**, Kuetz.
2680. **O. hyemale**, Kuetz.
Aurora, Erie Co. *Wolle.*
931. **FRAGILLARIA**, Agardh.
2681. **F. capucina**, Desmaz.
Buffalo City water supply.
2682. **F. virescens**, Ralfs.
Buffalo. *J. W. Ward.*
2683. **F. Harrisonii**, Sm. (*Odontidium Harrisonii*, Sm.)
Hamburg, Erie Co. *E. S. Nott.*
2684. **F. Crotonensis**, Bailey.
Buffalo City water supply.

932. SYNEDRA, Ehrb.

2685. *S. angustata*, Kuetz.
Buffalo. *J. W. Ward.*
2686. *S. linearis*, Ehrb.
Buffalo. *J. W. Ward.*
2687. *S. pulchella*, Kuetz.
Buffalo. *J. W. Ward.*
2688. var. *fasciculata*, Rabenh. (*S. fasciculata*, Sm.)
Buffalo. *J. W. Ward.*
2689. *S. Vaucheriae*, Kuetz.
Hamburg, Erie Co. *E. S. Nott.*
2690. *S. Ulna*, Ehrb.
Buffalo City water supply.
2691. *S. capitata*, Ehrb.
Buffalo City water supply.
2692. *S. radians*, Kuetz.
Hamburg, Erie Co. *E. S. Nott.*

933. ASTERIONELLA, Hassall.

2693. *A. formosa*, Hassall.
Buffalo City Water supply.

934. AMPHIPLEURA, Kuetz.

2694. *A. pellucida*, Kuetz.
Hamburg, Erie Co. *E. S. Nott.*

935. NITZSCHIA, Hassall.

2695. *N. sigmoidea*, Sm.
Buffalo. *J. W. Ward.* Hamburg, Erie Co. *E. S. Nott.*
2696. *N. curvula*, Ehrb.
Hamburg, Erie Co. *E. S. Nott.*
2697. *N. tenuis*, Sm.
Buffalo. *J. W. Ward.*
2698. *N. minutissima*, Grun. (?)
Buffalo. *J. W. Ward.*

936. NITZSCHIELLA, Rabenh.

2699. *N. acicularis*, Rabenh. (*Nitzschia acicularis*, Sm.)
Buffalo City water supply.

937. NAVICULA, Bory.

2700. *N. cuspidata*, Kuetz.
Buffalo. *J. W. Ward.* Hamburg, Erie Co. *E. S. Nott.*
2701. *N. rhomboides*, Ehrb.
Hamburg, Erie Co. *E. S. Nott.*
2702. *N. pygmæa*, Kuetz. (*N. minutula*, Sm.)
Buffalo. *J. W. Ward.*
2703. *N. minutissima*, Grun.
Buffalo. *J. W. Ward.*
2704. *N. Amphisbæna*, Bory.
Buffalo. *J. W. Ward.*
2705. *N. rhyncocephala*, Kuetz
Buffalo. *J. W. Ward.*
2706. *N. amigæa*, Ehrb.
Buffalo. *J. W. Ward.*
2707. *N. firma*, Kuetz. (?)
Buffalo. *J. W. Ward.*
2708. *N. cryptocephala*, Kuetz.
Buffalo. *J. W. Ward.* Hamburg, Erie Co. *E. S. Nott.*
2709. *N. Hebes*, Ralfs. (*N. obtusa*, Sm.)
Buffalo. *J. W. Ward.*
2710. *N. gracillima*, Pritch, var. *tenuis*, Rabenh. (*Pinnularia tenuis*, Greg.)
2711. *N. sp.* (?)
Buffalo. *J. W. Ward.*

938. PINNULARIA, Ehrb.

2712. *P. major*, Rabenh.
Buffalo. *J. W. Ward.*
2713. *P. viridis*, Rabenh.
Buffalo. *J. W. Ward.*
2714. *P. gibba*, Ehrb.
Buffalo. *J. W. Ward.*
2715. *P. radiosa*, Rabenh.
Buffalo. *J. W. Ward.*
2716. *P. nobilis*,
Hamburg, Erie Co. *E. S. Nott.*
2717. var. ————
Hamburg, Erie Co. *E. S. Nott.*

2718. *P. oblonga*, Rabenh.

Buffalo. *J. W. Ward.*

939. FRUSTULIA, Agardh.

2719. *F. membranacea*.

2720. *F. minuta*.

940. PLEUROSIGMA, Sm.

2721. *P. attenuatum*, Sm.

Buffalo. *J. W. Ward.*

2722. *P. acuminatum*, Kuetz., var. *lacustre*, Rabenh

(*P. lacustre*, Sm.)

Buffalo. *J. W. Ward.*

2723. *P. Spencerii*, Sm.

Hamburg, Erie Co. *E. S. Nott.*

2724. *P. sp.*

Buffalo City water supply.

941. STAURONEIS, Ehrb.

2725. *S. Phœnicenteron*, Ehrb.

Hamburg, Erie Co. *E. S. Nott.*

2726. *S. gracilis*, Ehrb.

Buffalo. *J. W. Ward.*

2727. *S. anceps*, Ehrb.

Buffalo. *J. W. Ward.*

942. AMPHIPRORA, Ehrb.

2728. *A. ornata*, Bailey.

Buffalo City water supply.

943. GOMPHONEMA, Agardh.

2729. *G. dichotomum*, Kuetz.

2730. *G. capitatum*, Ehrb.

2731. *G. geminatum*, Agardh.

Hamburg, Erie Co. *E. S. Nott.*

2732. *G. acuminatum*, Ehrb.

2733. *G. olivaceum*, Kuetz.

Hamburg, Erie Co. *E. S. Nott.*

2734. *G. Herculaneum*, Ehrb.

Niagara. Rabenhorst's "*Flora Eur. Alg.*"

944. MERIDION, Agardh.

2735. **M. circulare**, Agardh.Hamburg, Erie Co. *E. S. Nott.*2736. **M. constrictum**, Ralfs.Hamburgh, Erie Co. *E. S. Nott.*

945. TABELLARIA, Ehrb.

2737. **T. fenestrata**, Kuetz.

Buffalo City water supply.

946. RHIZOSOLENIA, Ehrb.

2738. **R. Eriensis**, H. L. Smith.

Buffalo City water supply.

2739. **R. gracilis**, H. L. Smith.

Buffalo City water supply.

Tabular View of the Flora of Buffalo and its Vicinity.

NAMES OF ORDERS.		NO. OF GENERA.	NO. OF SPECIES AND VARIETIES
1.	Ranunculaceæ,	15	36
2.	Magnoliaceæ,	2	2
3.	Anonaceæ,	1	1
4.	Menispermaceæ,	1	1
5.	Berberidaceæ,	4	4
6.	Nymphæaceæ,	3	3
7.	Sarraceniaceæ,	1	1
8.	Papaveraceæ,	4	5
9.	Fumariaceæ,	4	6
10.	Cruciferæ,	16	36
11.	Capparidaceæ,	2	2
12.	Resedaceæ,	1	1
13.	Violaceæ,	2	14
14.	Cistaceæ,	2	3
15.	Droseraceæ,	1	1
16.	Hypericaceæ,	2	6
17.	Caryophyllaceæ,	10	23
18.	Portulacaceæ,	2	4
19.	Malvaceæ,	5	9
20.	Tiliaceæ,	1	1
21.	Linaceæ,	1	3
22.	Geraniaceæ,	4	12
23.	Rutaceæ,	2	2
24.	Simarubaceæ,	1	1
25.	Anacardiaceæ,	1	5
26.	Vitaceæ,	2	4
27.	Rhamnaceæ,	2	2

NAMES OF ORDERS.	No. OF GENERA.	No. OF SPECIES AND VARIETIES
28. Celastraceæ,	2	4
29. Sapindaceæ,	2	7
30. Polygalaceæ,	1	3
31. Leguminosæ,	17	45
32. Rosaceæ,	15	52
33. Saxifragaceæ,	6	13
34. Crassulaceæ,	2	3
35. Hamamelaceæ,	1	1
36. Haloragæ,	2	4
37. Onagraceæ,	5	11
38. Lythraceæ,	2	2
39. Cucurbitaceæ,	2	2
40. Umbelliferæ,	21	26
41. Araliaceæ,	1	5
42. Cornaceæ,	2	8
43. Caprifoliaceæ,	7	21
44. Rubiaceæ,	4	13
45. Valerianaceæ,	2	4
46. Dipsaceæ,	1	1
47. Compositæ,	51	143
48. Lobeliaceæ,	1	4
49. Campanulaceæ,	2	6
50. Ericaceæ,	17	29
51. Aquifoliaceæ,	2	3
52. Plantaginaceæ,	1	3
53. Primulaceæ,	5	11
54. Lentibulaceæ,	2	4
55. Bignoniaceæ,	1	1
56. Orobanchaceæ,	3	3
57. Scrophulariaceæ,	15	30
58. Acanthaceæ,	1	1
59. Verbenaceæ,	2	3
60. Labiatæ, (Menthaceæ),	25	39
61. Borraginaceæ,	9	16
62. Hydrophyllaceæ,	1	2
63. Polemoniaceæ,	2	6
64. Convolvulaceæ,	3	8
65. Solanaceæ,	8	13
66. Gentianiaceæ,	3	8
67. Apocynaceæ,	2	3

NAMES OF ORDERS.		NO. OF GENERA.	NO. OF SPECIES AND VARIETIES
68. Asclepiadaceæ,		2	7
69. Oleaceæ,		2	5
70. Aristolochiaceæ,		1	1
71. Phytolaccaceæ,		1	1
72. Chenopodiaceæ,		4	10
73. Amarantaceæ,		1	5
74. Polygonaceæ,		3	24
75. Lauraceæ,		2	2
76. Thymelaceæ,		1	1
77. Elæagnaceæ,		1	1
78. Santalaceæ,		1	2
79. Saururaceæ,		1	1
80. Ceratophyllaceæ,		1	1
81. Callitrichaceæ,		1	1
82. Euphorbiaceæ,		2	11
83. Urticaceæ,		8	12
84. Platanaceæ,		1	1
85. Juglandaceæ,		2	6
86. Cupuliferæ,		6	15
87. Myricaceæ,		2	3
88. Betulaceæ,		2	6
89. Salicaceæ,		2	22
90. Coniferæ,		8	11
91. Araceæ,		5	6
92. Lemnaceæ,		3	4
93. Typhaceæ,		2	4
94. Naiadaceæ,		3	14
95. Alismaceæ,		4	6
96. Hydrocharidaceæ,		2	2
97. Orchidaceæ,		14	34
98. Iridaceæ,		3	3
99. Dioscoreaceæ,		1	1
100. Smilaceæ,		1	3
101. Liliaceæ,		18	31
102. Juncaceæ,		2	15
103. Pontederiaceæ,		2	2
104. Eriocaulonaceæ,		1	1
105. Cyperaceæ,		9	105
106. Gramineæ,		39	88
107. Equisetaceæ,		1	7

NAMES OF ORDERS.		NO. OF GENERA.	NO. OF SPECIES AND VARIETIES
108.	Ophioglossaceæ,	2	5
109.	Filices,	14	32
110.	Lycopodiaceæ,	1	5
111.	Selaginellaceæ,	2	3
112.	Salviniaceæ,	1	1
113.	Musci,	47	165
114.	Hepaticæ,	19	24
115.	Lichenes,	45	204
116.	Fungi,	217	869
117.	Characeæ,	2	3
118.	Algæ,	88	204
Total,		946	2739

Supplement.

That portion of the Catalogue which includes the names of our phænogamous plants was published early in the summer of 1882. Circumstances, for which the compiler and his associates in charge of its publication are in no degree responsible, have operated to prevent the appearance of the remainder of the work until the present time. This delay, however, has proved to be not altogether without compensations and advantages. By reason of it the opportunity has been given to bring the list much nearer completeness than otherwise would have been possible. Omissions, attributable to inadvertence or misunderstanding, have been supplied, doubts in respect to various questions have been settled, and the addition made of more than seventy-five phænogams which were then unknown as members of our Flora.

In fact, after the introduction to the Catalogue was in print, and whilst the list of phænogams was in the hands of the compositor, several species were, for the first time, detected within our territory, the names of which were at once assigned to their proper places in the list. Hence the discrepancy, (observed no doubt by many) between the number of the species of several genera, as stated in the introduction, and the number of the same as shown in the Catalogue itself. The preceding "Tabular View" has been designed to correct this discrepancy and display at a glance the numerical proportion which the species and genera of each family of our plants bears to our entire Flora.

The compiler has great pleasure in acknowledging the important kindness received by him from Judge CLINTON, who, with no little labor, prepared and placed at his use a list of

such phænogams as he had found within our limits, but which had not been named in the Catalogue. They are now embraced in this Supplement. To the localities of some of the rarer and more interesting plants he also made a large and valuable contribution.

Probably the most interesting addition now made to our list of plants is of that remarkable orchid, *Epipactis Helleborine*, Irm., found within the limits of our city, in July, 1882 :—its second discovery in America. But, without doubt, the very large addition of adventives, detected near the cattle yards at East Buffalo (chiefly from the far west), will arrest the attention of botanists and excite their surprise. Among these aliens are many plants of especial interest.

In this connection it may be said that of the 1,295 species and varieties of phænogamous plants, now enumerated as belonging to Buffalo and its vicinity, 1,011 are indigenous to the soil, and 284 have been introduced, inadvertently or by design.

The names of two species, only, require to be dropped from the Catalogue, as having been improperly included :—*Campanula glomerata*, L., (for which an aberrant form of *C. rapunculoides*, L. had been taken), and *Melica mutica*, Walt. Both these species had been named, with great hesitation, as members of our Flora.

These and other errors, more or less important, will be found corrected in the following list : but those which have seemed unlikely to mislead the student have not been noticed. The names of all genera and species included in the Catalogue having numerals affixed to them, reference to errors is made by such numbers rather than by page and line :— the more common, but, in the present instance, the less convenient way.

During the year 1882, attempts were made, in the interests of botanical science, to introduce into the vicinity of Buffalo, by seed or otherwise, the following named plants :—

Clematis verticillata, DC.

Diplotaxis tenuifolia, DC.

Anychia dichotoma, Michx.

Phlox paniculata, L.

Atriplex rosea, L.

Amarantus viridis, L.

<i>Scleranthus annuus</i> , L.	<i>Pinus rigida</i> , Miller.
<i>Epilobium hirsutum</i> , L.	<i>Naias Indica</i> , Braun.
<i>Diospyros Virginiana</i> , L.	<i>Anthericum liliastrum</i> , L.
<i>Plantago Virginica</i> , L.	<i>Tradescantia Virginica</i> , L.
<i>Dodecatheon, Meadia</i> , L.	<i>Aristida</i> , spec.
<i>Origanum vulgare</i> , L.	<i>Eleusine Indica</i> , Gaert.

It seems proper that the record of these attempts should here be made, so that in case these plants, or any of them, should thereby become established, the botanist of a future time may not make the mistake of supposing that we had overlooked them.

BUFFALO, July 1, 1883.

ADDITIONS.

Clematis verticillaris, DC.

Very rare. Portage, Wyom. Co. Discovered by Mrs. *M. B. Moody* and Miss *Belle Fish*, of the Buffalo Naturalists' Field Club, June, 1883. Two plants only.

Thalictrum purpurascens, L.

Within our territory: locality unrecorded. *Clinton*.

Ranunculus aquatilis, L., var. *stagnalis*, DC. (*R. divaricatus*, Schrank)

Pools along Niagara River, Canadian side, near Clifton, July, 1882.

Ranunculus multifidus, Pursh.

Port Colborne, Ont., July, 1882.

Ranunculus Flammula, L., var. *reptans*, Meyer.

Abundant on the shore of Grand Island, Niagara River, near Sour Spring Grove. *Clinton*.

Hydrastis Canadensis, L.

Indian Reservation, near Cattaraugus Creek, Brandt, Erie Co.

Cimicifuga racemosa, Nutt.

Gowanda, Erie Co., July, 1882.

Nelumbium luteum, Willd.

Mr. CHARLES E. SMITH, of Philadelphia, a very competent botanist, states to us, in a letter, that in passing from Montreal to Niagara, through Canada, he saw, in a number of sluggish streams crossed by the railroad, this remarkable plant in bloom. The fact, tending as it does to confirm Mr. *Cowell's* observation, deserves to be mentioned here.

ARGEMONE MEXICANA, L.

The large white-flowered variety at East Buffalo. 1882.

Adlumia cirrhosa, Raf.

In a wood near Port Colborne, Ont., June, 1882.

Diclytra Cucullaria, DC. × D. Canadensis, DC.

Hybrids of these species found on Goat Is., Niagara Falls, and at West Seneca, Erie Co., May, 1883.

Cardamine pratensis, L.

Abundant at Connewango, Catt. Co. *C. Linden.*

SISYMBRIUM THALIANA, Gay.

From its abundance and wide diffusion at Point Abino, Ont., it seems scarcely possible that this plant is not there indigenous.

Sisymbrium canescens, Nutt.

No doubt remains that the plant collected near Indian Falls was of this species.

CAMELINA SATIVA, Crantz.

Abundant on the Plains, Buffalo, and at Bergen, Gen. Co. 1882.

LEPIDIUM CAMPESTRE, R. Br.

The smooth form at Bergen, Gen. Co., 1883. Miss *Belle M. Ross.*

RAPHANUS SATIVUS, L.

Often spontaneous in gardens and escaping.

RESEDA ODORATA, L.

Spontaneous in gardens and escaping. *Clinton.*

Ionidium concolor, Benth. and Hook.

Near the center of Goat Is., Niagara Falls. *Clinton.*

Viola sagittata, Ait.

"At Jamestown, Chaut. Co., and at Rochester, and must be in the district." *Clinton.*

Viola pubescens, Ait., var. scabriuscula, Torr. and Gray.

Common on Goat Is., Niagara Falls, and elsewhere.

Hypericum Canadense, L.

"Within our district." *Clinton.*

VACCARIA VULGARIS, Host.

Frequently springing up from the refuse of "bird seed."

MOLLUGO VERTICILLATA, L.

Plentiful at East Buffalo. 1882.

CALANDRINIA MENZIESII, Hook.

Well established in a garden in Buffalo, and likely to extend. 1882.

SIDA SPINOSA, L.

East Buffalo, Sept., 1882.

Rhus Toxicodendron, L.

An upright form of little height, on Goat Is., Niagara Falls.
1883.

VITIS LABRUSCA, L.

Dr. *Engelmann*, in a letter, dated Oct. 15, 1882, expresses great doubt of this species being indigenous at Niagara Falls, or elsewhere in our territory. A careful re-examination of the ground makes it quite certain that he is right. But that the plant frequently springs up, spontaneously, near vineyards in our vicinity is a matter of frequent observation.

Vitis cordifolia, Lam., var. riparia, Gray.

This variety, regarded by Dr. *Engelmann* as a distinct species, (*V. riparia*, Michx.), is common at Niagara Falls and along the river. It also occurs at Point Abino, Ont. The typical *V. cordifolia* probably does not belong within our limits.

Polygala incarnata, L.

"Near Niagara Falls, *Hook.*" (Beck's "*Botany of the U. S.*," p. 42.) Not seen by us.

Polygala ambigua, Nutt.

Reported by *J. F. Cowell* as growing at Portage, Wyom. Co.
1882.

Polygala paucifolia, Willd.

Reported by members of the Buffalo Naturalists' Field Club as found by them at Gowanda, Erie Co., May 19, 1883.

Lespedeza Stuvei, Nutt.

Near Buffalo. *Clinton*.

Phaseolus diversifolius, Pers.

Near the ruins of Fort Erie, Ont., Sept., 1883. *J. F. Cowell*.

Cassia Chamæchrista, L.

A few plants found, Sept. 1882, at East Buffalo.

POTERIUM SANGUISORBA, L.

Well established at Point Abino, Ont. 1883.

POTENTILLA SUPINA, L. (*P. paradoxa*, Nutt.)

At East Buffalo. 1882.

POTENTILLA RECTA, L.

At the wooded edge of a cultivated field near Clifton, Ont.
1882.

Rosa setigera, Michx.

Gowanda, Erie Co., July, 1883.

Rosa nitida, Willd.

Not uncommon.

ROSA MICRANTHA, Smith.

Common at Ft. Erie, Ont., July, 1882.

PYRUS MALUS, L.

Spontaneous in old fields near Port Colborne, Ont. 1882.

PYRUS COMMUNIS, L.Occurring with *P. Malus* near Port Colborne, Ont. 1882.**Amelnachier Canadensis**, Torr. and Gray.The varieties, *Botryapium*, Torr. and Gray, *oblongifolia*, Torr. and Gray, and perhaps others, are within our limits.**Hydrangea arborescens**, L.In "the Gulf," at Warsaw, Wyoming Co., July, 1883. Miss *Belle M. Ross*.**Myriophyllum heterophyllum**, Michx.

In pools, near Niagara River, above Clifton, Ont., July, 1882.

Sicyos angulatus, L.

Point Abino, Ont.

Berula angustifolia, Koch.

Near Port Colborne, Ont., July, 1882.

Eugeni abulbosa, Nutt.Alden, Erie Co. *J. F. Cowell*.**Lonicera sempervirens**, Ait.Near Fredonia, Chaut. Co. Probably introduced. *Henry R. Jones*.**Galium trifidum**, L., var. **latifolium**, Gray.In the district. *Clinton*.**Aster corymbosus**, Ait.Common among the hills of the ALLEGANY DISTRICT. *Clinton*.**Aster macrophyllus**, L.

Inadvertently omitted from the list.

Aster tenuifolius, L.Rare. Bergen, Gen. Co. *Clinton*.**Aster acuminatus**, Michx.Smoke's Creek, West Seneca, Erie Co., and at "Rock City," near Salamanca, Catt. Co. *Clinton*.**Solidago Riddellii**, Frank.Judge *Clinton* is of the opinion that he once found this species at Bergen, Gen. Co.

AMEROSIA PSYLOSTACHYA, DC.

Reported by *J. F. Cowell* as having been found by him at East Buffalo.

Xanthium Canadense, Miller. (*X. strumarium*, L., of Gray's *Manual of Botany*). Bristly fruited. Not uncommon in waste places.

var. **echinatum**, (*X. strumarium*, var. *echinatum* of Gray's *Manual of Botany*). Hairy fruited. Shore of Lake Erie, Buffalo.

The true *X. strumarium*, L., a native of Europe, sparingly adventive at the East, has not been recognized here. It may be known by its fruit being entirely smooth.

HELIANTHUS PETIOLARIS, Nutt.

Adventive at East Buffalo. 1882.

HELIANTHUS LENTICULARIS, Dougl.

Adventive at East Buffalo. 1882.

COREOPSIS ARISTOSA, Michx.

Adventive at East Buffalo. 1882.

Bidens cernua, L.

Abundant near the shore of Niagara River, above Clifton, Ont., Oct., 1882.

BIDENS BIPINNATA, L.

Adventive at East Buffalo. 1882.

MATRICARIA INODORA, L. (?)

Springing up where "English Lawn Grass-seed" has been planted, but probably precarious. 1883.

ARTEMISIA VULGARIS, L.

Fort Erie, Ont. 1882.

Lactuca Canadensis, L., var. **integrifolia**, Torr. and Gray.

Inadvertently omitted from the list.

Lactuca Canadensis, L. var. **sanguinea**, Torr. and Gray.

Inadvertently omitted from the list.

LACTUCA SCARIOLA, L.

An adventive, well established at East Buffalo. 1882.

Vaccinium macrocarpon, Ait.

Point Abino, Ont. 1882.

Plantago Rugellii, Desc.

Here, as elsewhere, the species (erroneously called *P. Kamtschatica* in the Catalogue), proves to be very common and is often found growing with *P. major*, L.

VERBASCUM LYCHNITIS, L.

Very rare, and now probably extirpated. *Clinton*.

LINARIA CYMBALARIA, Mill.

A garden weed, often springing up from the refuse of "bird-seed." 1882.

Gerardia pedicularia, L.

Within our territory: station not given, but probably near Salamanca, Catt. Co. *Clinton*.

VERBENA ANGUSTIFOLIA, Michx.

Adventive at East Buffalo, Aug. 22, 1882.

VERBENA STRICTA, Vent.

Adventive at East Buffalo, Aug. 21, 1882.

VERBENA BRACTEOSA, Michx.

Adventive at East Buffalo, Aug. 7, 1882.

ORIGANUM VULGARE, L.

Within our territory: station not given. *Clinton*.

SATUREIA HORTENSIS, L.

The Plains, Buffalo. 1883. *J. F. Cowell*.

SALVIA GLUTINOSA, L.

Spontaneous in a garden in Buffalo and likely to spread.

Monarda didyma, L.

Gowanda, Erie Co., July 11, 1883.

HELIOTROPIMUM EUROPÆUM, L.

A garden weed, Buffalo, and likely to continue.

IPOMŒA NIL, Roth.

Adventive at East Buffalo. 1882.

PHYSALIS PHILADELPHICA, Lam.

Not uncommon at East Buffalo. 1882.

DATURA STRAMONIUM, L.

Becoming common at East Buffalo, 1882.

Frasera Carolinensis, Walt.

In a woods about one and one-half miles west of Brock's Monument, Queenston, Ont. *Joseph Sturdy*.

Gentiana Saponaria, L.

Rare. A gentian, transplanted to a garden from the vicinity of Buffalo, proves to be of this species. Station unrecorded. 1882.

LIGUSTRUM VULGARE, L.

Well established near Clifton, Ont. 1882.

SYRINGA VULGARE, L.

Apparently spontaneous in one spot on Goat Is., Niagara Falls. 1883.

CHENOPODIUM GLAUCUM, L.

Now called *Blitum glaucum*, Watson. Common at East Buffalo, and at Lewiston, Niagara Co. 1882.

CHENOPODIUM URBICUM, L.

Common among the adventives at East Buffalo. 1882.

CHENOPODIUM MURALE, L.

East Buffalo; Bath Is., Niagara Falls. *Clinton*.

CHENOPODIUM AMBROSIODES, L.

The typical form sparingly at East Buffalo. 1882.

AMARANTUS BLITOIDES, Watson.

Common at East Buffalo, 1882.

AMARANTUS : (Species undetermined, probably new.)

Resembling *A. blitoides* and growing with it; but more erect, and with narrower and longer leaves. Seeds smaller and differently margined. Stems whitish. 1882. Native in Colorado.

AMARANTUS SPINOSUS, L.

At East Buffalo, but rare. 1882.

ACNIDA TAMARISCINA, Gray. (?)

An *Acnida*, probably of this species, rather plentiful at East Buffalo. 1882.

RHEUM RHAPONTICUM, L.

Spontaneous in neglected gardens and occasionally escaped. One large plant noticed in a woods on the Plains, Buffalo.

DAPHNE MEZEREUM, L.

One individual, perhaps planted, seen on Goat Is., Niagara Falls, growing beyond cultivated ground.

EUPHORBIA HYPERICIFOLIA, L.

Now common at East Buffalo. 1882.

Ulmus racemosa, Thomas.

A newly felled tree, noticed near Fort Erie, Ont., April, 1883.

Corylus Americana, Walt.

Goat Is., Niagara Falls. *Clinton*.

Populus balsamifera, L., var. candicans, Gray.

A single tree noticed growing near the margin of Niagara River, on the Canadian side, below the Falls, far from cultivation. 1882.

Potamogeton prælongus, Wulfen.

The Rev. *Thomas Morong*, who has examined our specimens, doubts the correctness of the determination of the plant here intended.

Potamogeton marinus,

A little above Niagara Falls on the Canadian side. Rev.
Thomas Morong.

Habenaria fimbriata, Gray.

One plant, with pure white flowers, deliciously fragrant, found
at Point Abino, Ont. 1882.

Epipactis Helleborine, var. viridens, Irm.

Near Scajauquady's Creek, Buffalo:—The second known station of the species on the American continent. Here first found by Miss *Edna M. Porter*, July, 1882. Equivalent, according to *GRAY*, to *E. latifolia*. The plant answers exceedingly well to the following generic description of *Epipactis*, (transcribed from *WATSON's Botany of California*), except as noticed in our specific description below.

“EPIPACTIS, *Haller.*

“Perianth spreading, the sepals and petals nearly equal ;
“lip free, deeply concave at the base, without callosities, narrowly constricted and somewhat jointed in the middle, the upper portion dilated and petaloid. Column short (equaling the anther). Anther sessile behind the broad, truncate stigma, on a slender jointed base, two celled, obtuse ; pollen masses coarsely granular, becoming attached above to the gland capping the small rounded beak of the stigma.
“Caulescent and leafy from creeping rootstocks ; flowers few and pedicelled, rather large in our species, [*E. gigantea*, *Dougl.*], with conspicuous bracts, divergent, and the ovaries at right angles to the stem.”

E. Helleborine, Irm. *Rootstocks not creeping.* Stems, one to several. Height from twelve to twenty-four inches. Leaves broadly ovate, two to three inches long, pointed, plicate. Raceme, before flowering, recurved, pubescent. Flowers numerous (from thirty to fifty), in color varying from a light, greenish yellow to a dark, dull purple. The spoon-shaped lip very dark, covered with a viscid secretion. Ovaries, as they approach maturity, reflexed. July and August.

In our station certainly indigenous. About 200 individuals were counted, all growing within the space of a few hundred feet along a northerly hillside, from five to thirty feet above the creek. The diversity of color, which the flowers on different plants display, indicates that the variety, *viridens*, has no stability of character.

Cypripedium candidum, Muhl.

Collins, Erie Co. *J. F. Cowell.*

Sisyrinchium Bermudiana, L.

Both varieties, **anceps**, Gray, and **mucronata**, Gray, within our district. *Clinton.*

Erythronium Americanum, Smith.

Two varieties, the second of which has pure yellow, almost unspotted flowers, have been pointed out by Mr. COWELL.

Erythronium albidum, Nutt.

The variety found at Lake Superior by Dr. ROBBINS is thought to have been detected by Mr. COWELL, at West Seneca, Erie Co.

Allium cernuum, Roth.

At West Seneca, Erie Co., and at Portage, Wyoming Co.
J. F. Cowell.

Juncus Canadensis, J. Gay.

The four varieties, recognized by GRAY in his *Manual*, in our district. *Clinton.*

Tradescantia Virginica, L.

Introduced at West Seneca, Erie Co.

Scirpus maritimus, L.

Black Rock pier, Niagara River, Buffalo.

Scirpus polyphyllus, Vahl.

Shores of Niagara River, Buffalo.

Carex cephalophora, Muhl.

Within our territory, station unrecorded. *Clinton.*

Carex chordorrhiza, Ehrh.

Sphagnous swamp at Cassadaga, Chaut. Co. *Clinton.*

Carex canescens, L., var. **vitis**, Gray.

Within our territory, station unrecorded. *Clinton.*

Carex Deweyana, Schw.

Within our territory, station unrecorded. *Clinton.*

Carex scirpoides, Schk.

Within our territory, station unrecorded. *Clinton.*

Carex lagopodoides, Schk.

Within our territory, station unrecorded. *Clinton.*

Carex gracillima, Schw.

Within our territory, station unrecorded. *Clinton.*

Carex varia, Muhl.

Within our territory, station unrecorded. *Clinton.*

ERAGROSTIS POÆOIDES, Beauv., var. **MEGASTACHYA**, Gray.

An adventive at East Buffalo, 1882.

ERAGROSTIS PURSHII, Schrad.

An adventive at East Buffalo, 1882.

LOLIUM TEMULENTUM, L.

Near Buffalo, but very rare. *Clinton*.

HORDEUM JUBATUM, L.

Becoming plentiful at East Buffalo, 1882.

Phalaris arundinacea, L.

The striped variety native at Hamburg, Erie Co.

PANICUM AGROSTOIDES, Spreng.

An adventive at East Buffalo, 1882.

PANICUM PROLIFERUM, Lam.

An adventive at East Buffalo, 1882.

CENCHRUS TRIBULOIDES, L.

This unwelcome grass, within a very short time, has become thoroughly established along the track of the Niagara Falls Railroad, near the foot of York Street, in this city, as well as at East Buffalo, and Ft. Erie, Ont.

Lecanora muralis, (Schreb.) Schær.

The varieties, **parella**, Fr., and **rosella**, Tuck., omitted by inadvertence.

CORRECTIONS.

For *Cerastium boreale*, (p. 70, l. 6,) read *Stellaria borealis*.

7. **Anemone Hepatica**, L. Change "Genesee" to "Wyoming."

15. **Ranunculus alismæfolius**, Geyer. Change specific name and that of its author to "**ambigens**, Watson."

27. **Trollius laxus**, Salisb. Change "Genesee" to "Wyoming."

68. **Cardamine rotundifolia**, Michx. Prof. WATSON, in transferring this name to the plant, which TORREY called *C. rhomboidea*, DC., var. *purpurea*, seems to have fallen into an error. (See GRAY'S note in the *Botanical Gazette*, Vol. 4, p. 210). But that the plant itself is entitled to specific rank admits, in our opinion, of little doubt.

71. **Cardamine hirsuta**, L., var. **sylvatica**. Add "Gray" as the authority for the variety.

85. **BRASSICA NIGRA**, Gray. Substitute "Koch" for "Gray."

92. **THLASPI ARVENSIS**, L.. Change "ARVENSIS" to "ARVENSE."

For "ORDER II. CAPSARIDACEÆ" read "ORDER II. CAPPARIDACEÆ."

123. **DIANTHUS ARMERIA**. Add "L" to denote the authority.

145. *Mollugo verticillata*, L. The plant, being with us an adventive, the name should have appeared in small capitals. It is now referred by the later authorities, to the natural order, FICOIDEÆ.
202. *Polygala paucifolia*, Willd. After "Eighteen-mile Creek," add "Evans."
229. *Lespedeza violacea*, Pers., var. *sessiliflora*. Add as the authority for the variety, "Torr. and Gray."
244. *Baptisia tinctoria*, R. Br. After "Salamanca" add "Catt. Co."
256. *Poterium Canadense*, Benth. & Hook. For "Cattaraugus" read "Chautauqua."
275. *Rubus Dalibarda*, L. Add, as a synonym, "*(Dalibarda repens, L.)*"
But see GRAY'S note in regard to the name of the plant in the *Botanical Gazette*, Vol. 3, p. 210.
290. *Cratægus oxycantha*, L. For "oxycantha" read "**Oxyacantha**."
297. *Pyrus arbutifolia*, var. *melanocarpa*, Gray. After the specific name add "L," to denote the authority.
316. *Hamamelis Virginica*, L. For the specific name "**Virginica**" substitute "**Virginiana**." See WATSON'S *Bibliog. Index of N. A. Botany*, Vol. I, p. 355.
324. *Epilobium palustre*, var. *lineare*, Gray. After the specific name insert "L," to denote the authority.
346. *Selinum Canadense*, Michx. Remove "*(Conioselinum Canadensis, Fischer.)*" from its place after the generic name, "**SELINUM**," and insert the same after "S. Canadense, Michx." After the generic name add "L," to denote the authority.
355. *Chærophyllum sativum*, Lom. Change "Lom" to "Lam."
367. *Cornus Canadensis*, L. After "Cheektowaga," insert "Erie Co."
382. *Lonicera Tatarica*. Insert "L" after the specific name to denote the authority.
410. *Valeriana officinalis*. Insert "L" after the specific name to denote the authority.
420. *Tussilago Farfara*, L. This being at Buffalo a naturalized plant, the name should have appeared in small capitals.
429. *Aster ericoides*, L., var. *villosus*. After the name of the variety add "Gray" as the authority.
476. *Ambrosia trifida*, L. After the name of the variety, "**integrifolia**," add "Torr. and Gray" as the authority.
499. *Dysodia chrysanthemoides*, Lag. This being with us an adventive plant, the name should have appeared in small capitals.
504. *ACHILLEA MILLEFOLIUM*, L. A native plant. The name therefore should *not* have appeared in small capitals.
518. *Gnaphalium uliginosum*. Add "L" to denote the authority.
549. *Prenanthes crepidina*, Michx. For "**crepidina**" read "**crepidinea**."
564. *CAMPANULA GLOMERATA*, L. The plant here intended proves to be only a form of *C. rapunculoides*, L. The name must be erased.

600. *Plantago Kamschatica*, Cham. For "*Kamschatica*, Cham." read "*Rugelii*, Desc." See *Botanical Gazette*, Vol. 3, p. 95.
616. *Pinguicula vulgaris*. Insert "L" after the name to denote the authority. For "ORDER 60, MENTHACEÆ," read "ORDER 60, LABIATÆ."
693. *Ballota nigra*, L. An adventive plant. The name should have appeared in small capitals.
698. *Lithospermum officinale*, L. A naturalized plant. The name should have appeared in small capitals.
703. *Myosotis arvensis*, Hoffman. An adventive. The name should have appeared in small capitals.
709. *Heliophytum Indicum*, DC. An introduced plant. Therefore requiring small capitals.
718. *Ipomœa purpurea*, L. Introduced. Therefore requiring small capitals.
720. *Convolvulus arvensis*, L. An adventive. The name requires small capitals.
730. *Physalis viscosa*, L. For "*viscosa*, L." read "*Virginica*, Mill." See *Botanical Gazette*, Vol 2, p. 80.
735. *HYOSCYAMUS NIGRUM*, L. For "*NIGRUM*" read "*NIGER*."
776. *AMARANTUS RETROFLEXUS*, var. *HYBRIDUS*, Gray. Mr. WATSON is disposed to regard our plant as a variety of *A. chlorostachys*, Willd.
791. *Polygonum erectum*, L. Add, as a synonym, (*P. aviculare*, L., var. *erectum*, Roth.)
For 359. *LINDERNA*, Thunberg," read, "359. *LINDERA*, Thunberg."
After "369. *MORUS*," insert "Tourn." to denote the authority for the name.
872. *Salix purpurea*, L. Introduced. The name therefore requires small capitals.
908. *Wolffia Columbiana*, Karsten. As the authority for *W. Brasiliensis*, read "Weddell" instead of "Karsten."
922. *Potamogeton Niagarensis*, Tuckerman. The Rev. THOMAS MORONG, who has made the genus *Potamogeton* a special study, regards *P. Niagarensis*, Tuckerman, as only a form of *P. pauciflorus*, Pursh.
945. *Habenaria peramœna*, Gray. For "*peramœna*" read "*fimbriata*."
972. *Dioscorea villosa*, L. Mr. COWELL, in his statement relative to this plant, was misunderstood. He has, however, met with the plant in our vicinity. It has also lately been collected in Chautauqua Co.
1013. *Juncus articulatus*, L.
1014. var. *pelocarpus*, Gray. Our plant is now regarded as *J. alpinus*, Villars, var. *insignis*, Fries.
After "468, *CAREX*," insert "L" to denote the authority.
1159. *Melica mutica*, Walt. The name, for the present, must be erased.
After "504, *PANICUM*," insert "L" to denote the authority.
1209. *Panicum Xalapense*. Introduced. The name therefore requires small capitals.

1258. *Dicksonia pilosiuscula*, Willd. For the specific name substitute "*pilosiuscula*."
524. SPHAGNUM. As the authority for the genus, substitute "Dill." for "Ehrh."
1480. *Theloschistes chrysophthalmus*, L. For the specific name and its authority, substitute "*chrysophthalmus*, Norm."
1485. *Parmelia tiliacea*, Ach. For "Ach.," as the authority for the species, substitute "Flk."
1562. *Rinodina sophodes*, (Ach.) Moss. For "Moss" read "Mass."
2049. *Septoria Erigerontis*, P. and C. In note, for "*annumu*" read "*annuus*."
2144. *Uromyces Peltandrae*, Howe. For specific name read "*Peltandrae*."
2189. *Periconia calicioides*, Fr. In note, for "*Sporocybe*" read "*Sporocybe*."
2432. *Dothidea Linderae*, Ger. In note, for "*Lendera*" read "*Lindera*."



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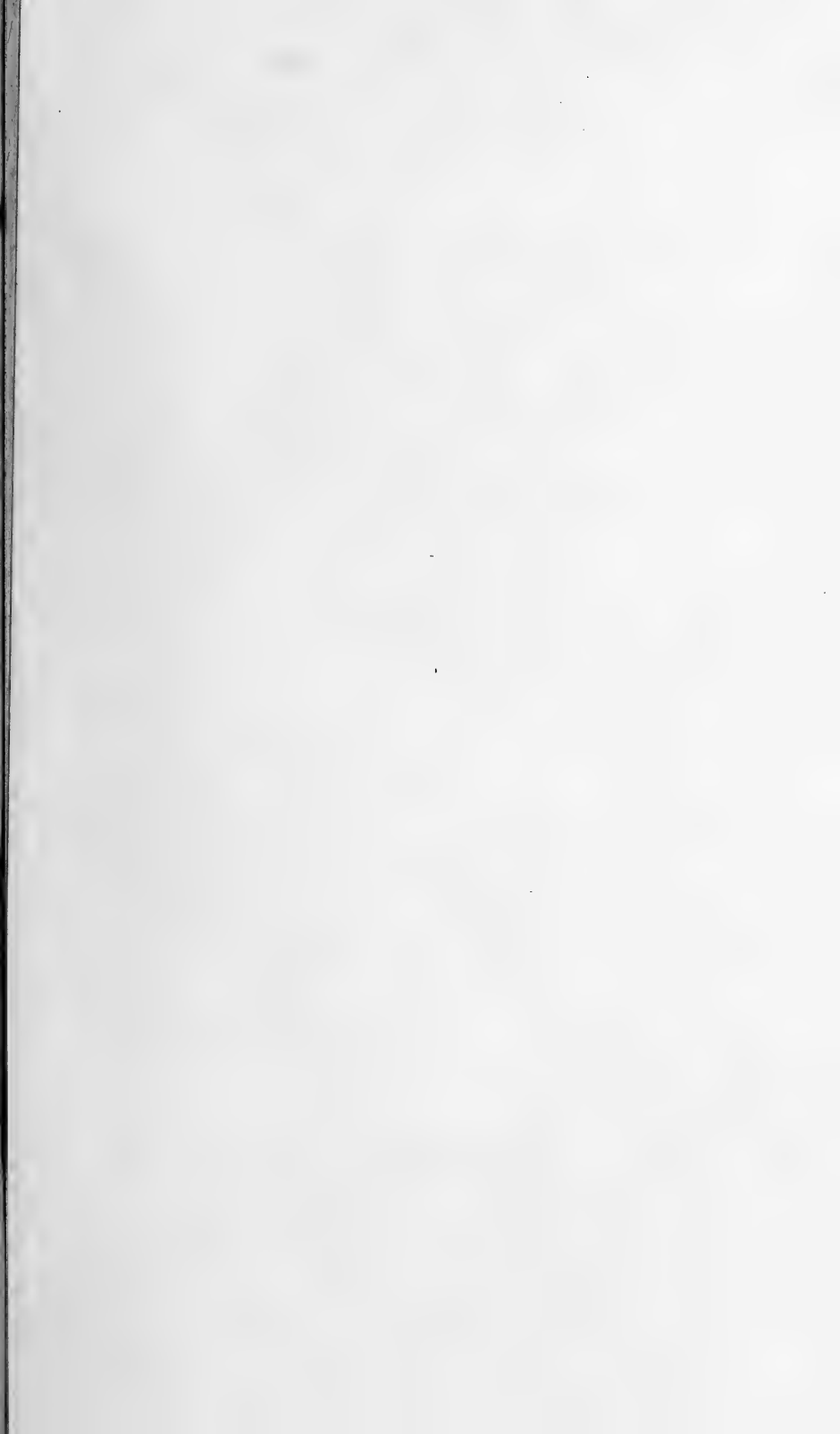
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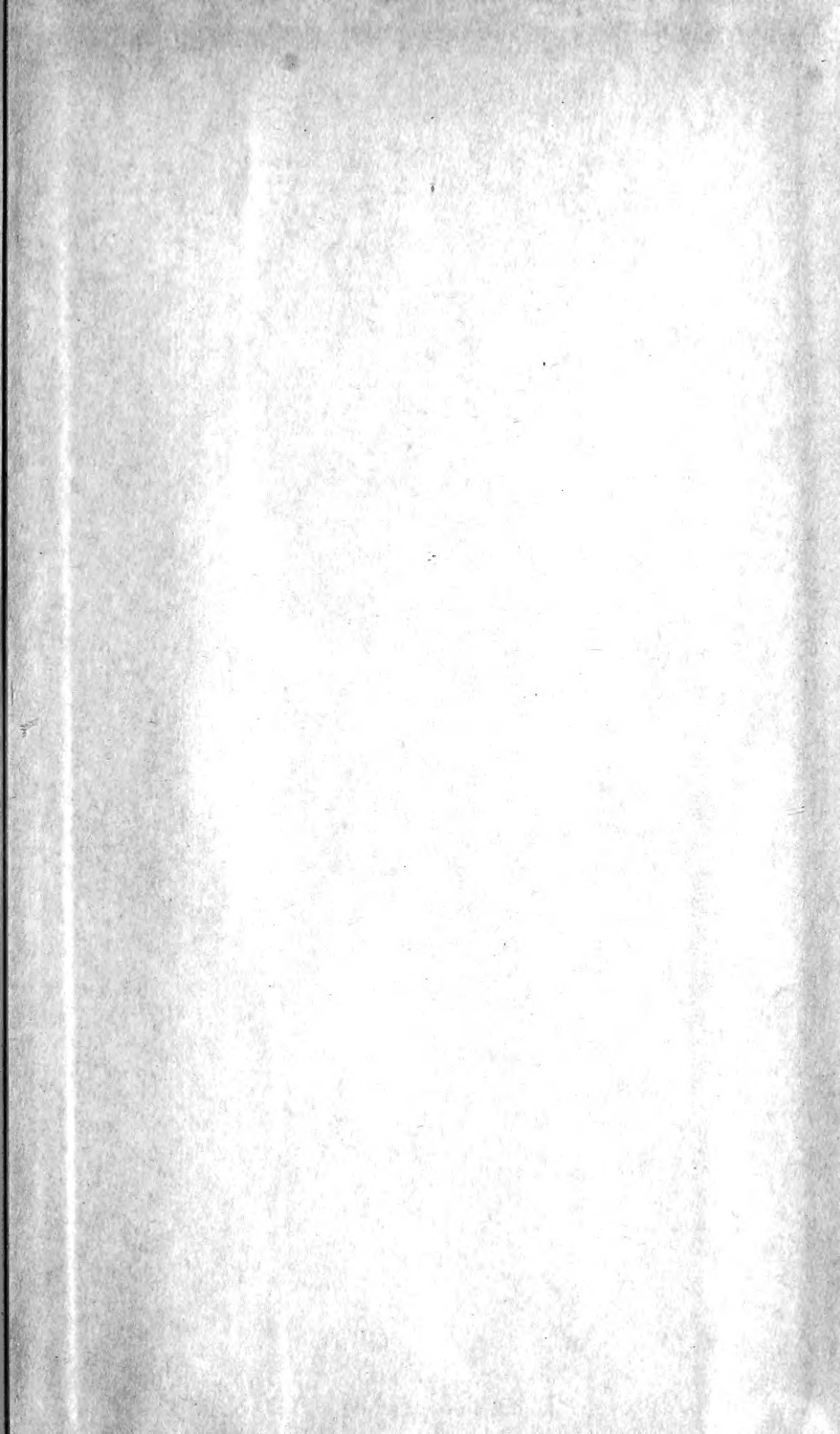
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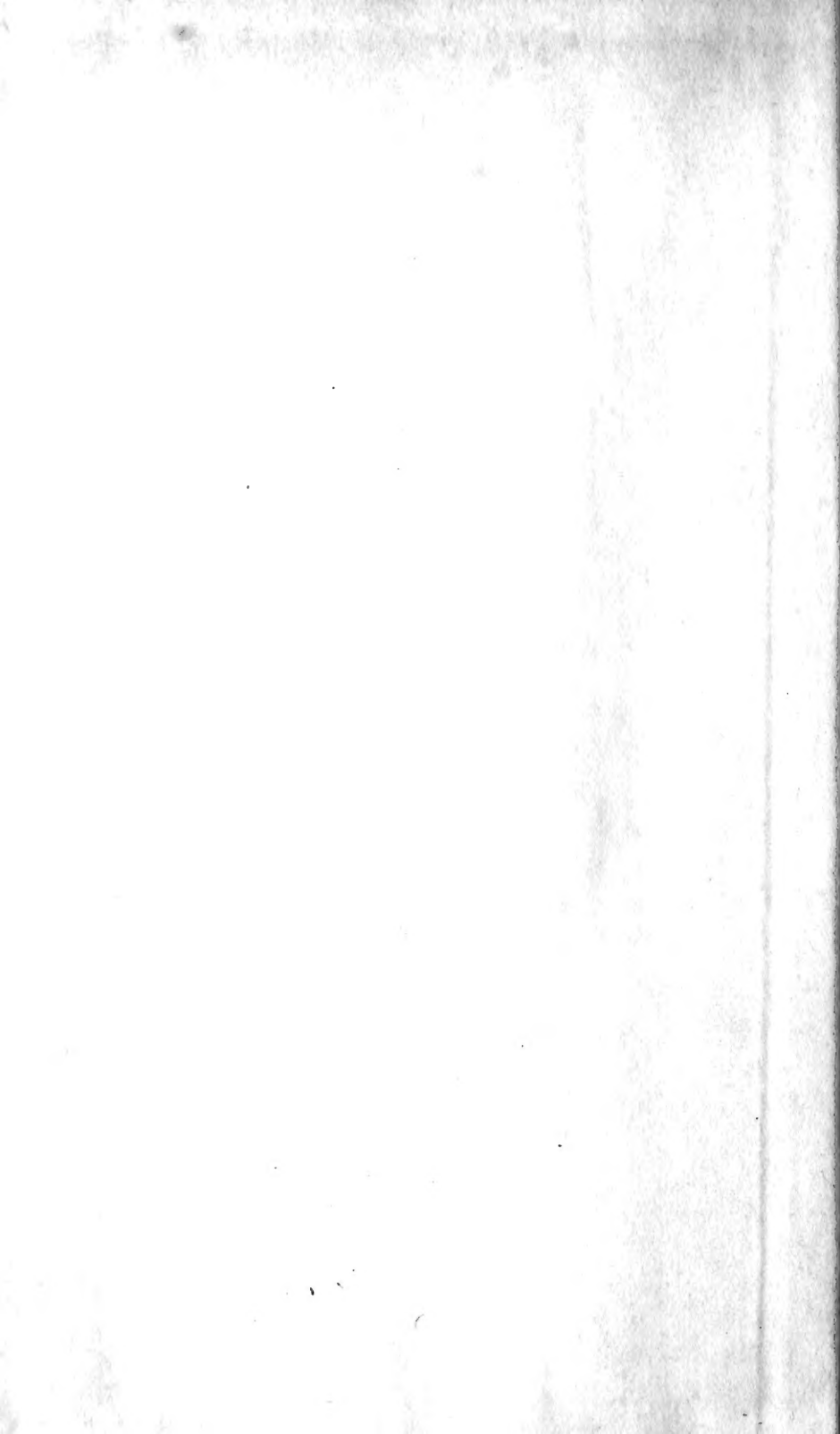


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